

TC-D607

SERVICE MANUAL

AEP Model

UK Model

E Model

Australian Model



This set is the cassette deck section in LBT-D607/D607CD.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	TC-H1600
Tape Transport Mechanism Type	DECK A : TCM-190RA12C
	DECK B : TCM-190RB22C

SPECIFICATIONS

Recording system	4-track 2-channel stereo
Frequency response	DOLBY NR OFF With Type IV cassette (Sony METAL-ES) 30 Hz to 15 kHz (± 3 dB) With Type II cassette (Sony UX-S) 40 Hz to 14 kHz (± 3 dB) With Type I cassette (Sony HF-S) 40 Hz to 14 kHz (± 3 dB)
Wow and flutter	$\pm 0.2\%$ (DIN)
Weight	Approx. 3.5 kg (8 lbs 1 oz)
Dimensions	Approx. 355 x 131 x 304 mm (14 x 5 1/4 x 12 inches) (w/h/d, including projections)

Design and specifications are subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

STEREO CASSETTE DECK
SONY[®]



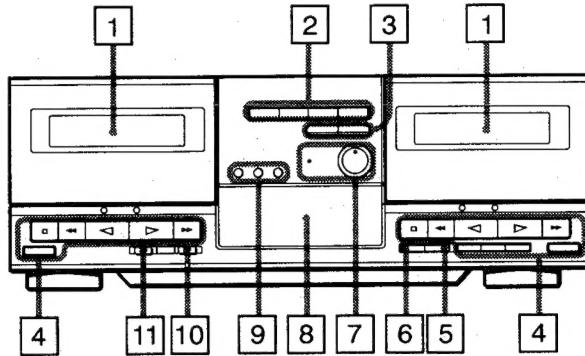
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SECTION 1 GENERAL

This section is extracted
from instruction manual.

Location of Controls



- [1] Cassette holders
- [2] AUTO CD SYNCHRO REC buttons and indicators
C.(Cross) FADE (29)
FADE (28)
EDIT (31)
TIME (31)
- [3] SYNCHRO DUBBING buttons (24)
- [4] Tape operation buttons
◀◀ Leftward fast winding/AMS*, ▶▶ Rightward fast
winding/AMS*, ▶ Forward play, ◀ Reverse play, ■ Stop,
▲ EJECT, II PAUSE(deck B only), ○ REC MUTE
Record muting (deck B only), ● REC Record (deck B
only)
- [5] FADER button (22)
- [6] ARL (Automatic recording level) button and indicator
(21)
- [7] REC (recording) LEVEL control and indicator (20)
- [8] Display window
- [9] COUNTER setting buttons (19)
A/B, MEMORY and RESET button
- [10] DOLBY NR (noise reduction) selector (20)
- [11] DIRECTION MODE selector (17, 20, 24)

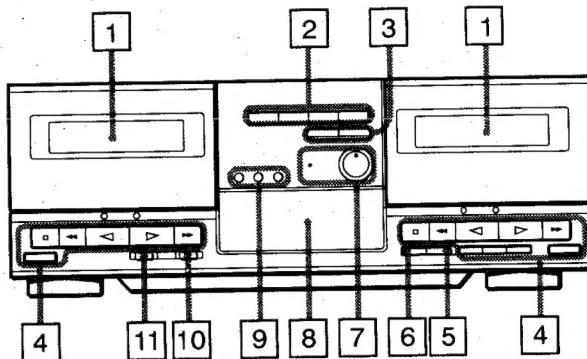
* AMS is the abbreviation of Automatic Music Sensor.

SECTION 1

GENERAL

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from instruction manual.

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- [5] FADER button (22)
- [6] ARL (Automatic recording level) button and indicator (21)
- [7] REC (recording) LEVEL control and indicator (20)
- [8] Display window
- [9] COUNTER setting buttons (19)
A/B, MEMORY and RESET button
- [10] DOLBY NR (noise reduction) selector (20)
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SECTION 2 DISASSEMBLY

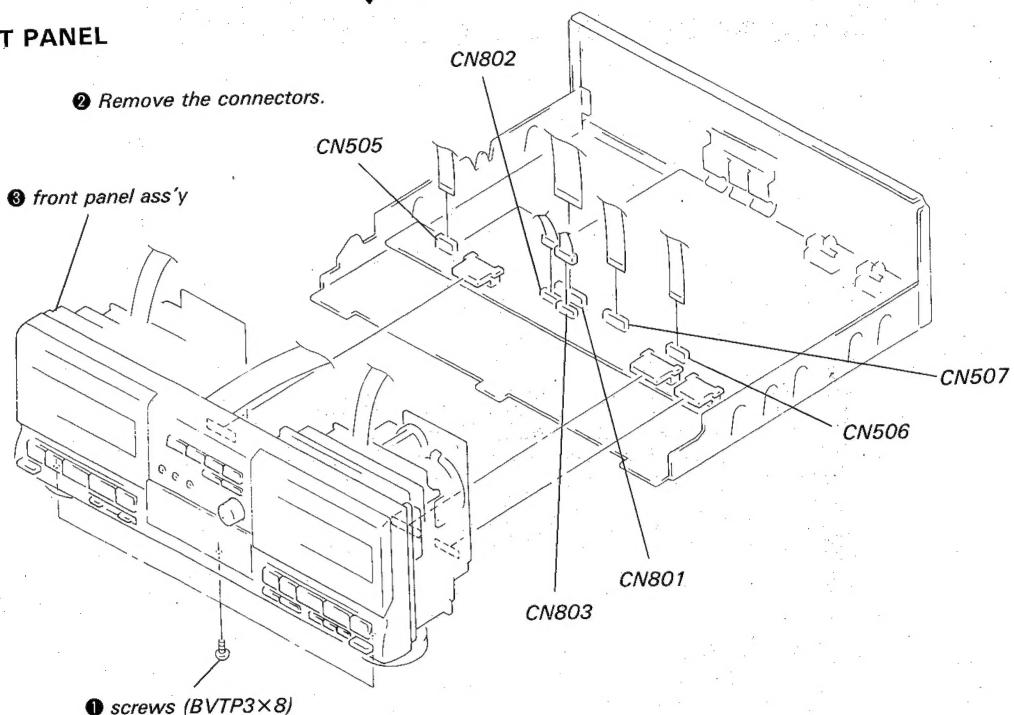
NOTE: Follow the disassembly procedure in the numerical order given.

CASE

Unscrew the four case attachment screws M3×8 and remove the case.

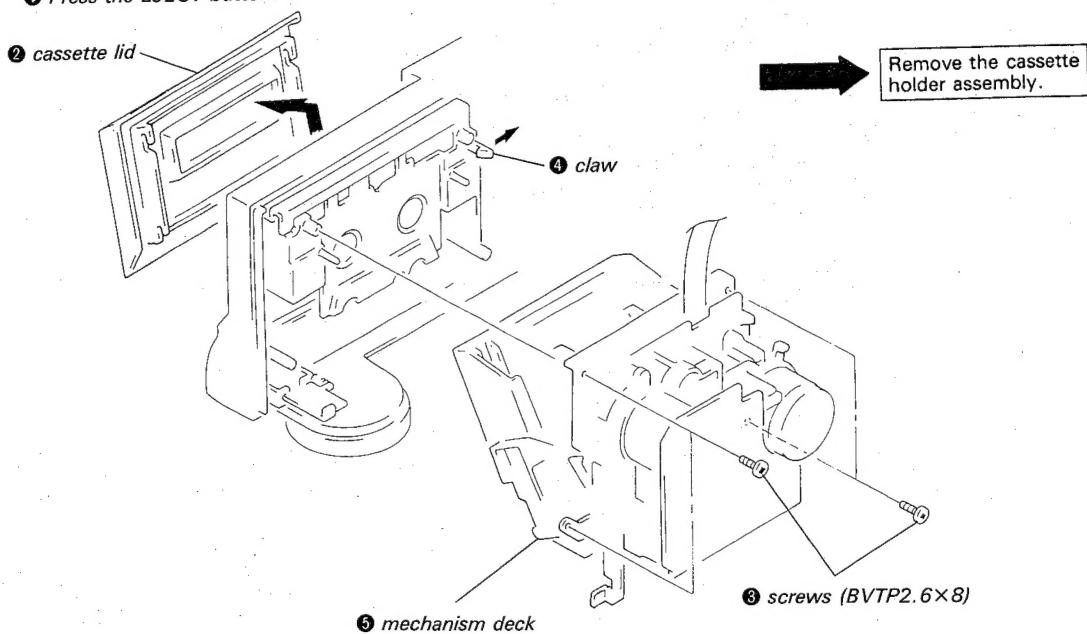
FRONT PANEL

- ② Remove the connectors.

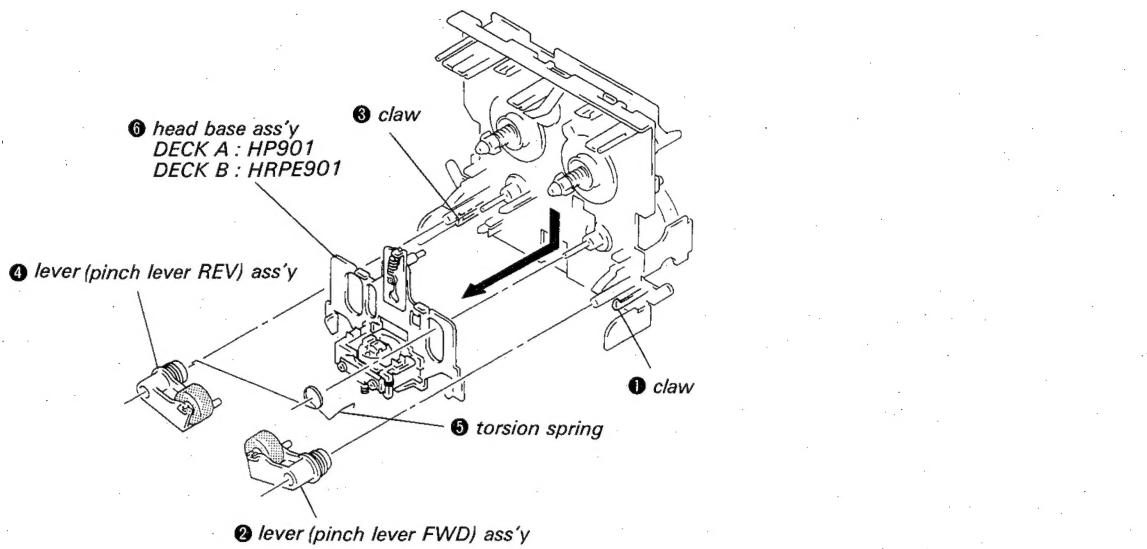


MECHANISM DECK

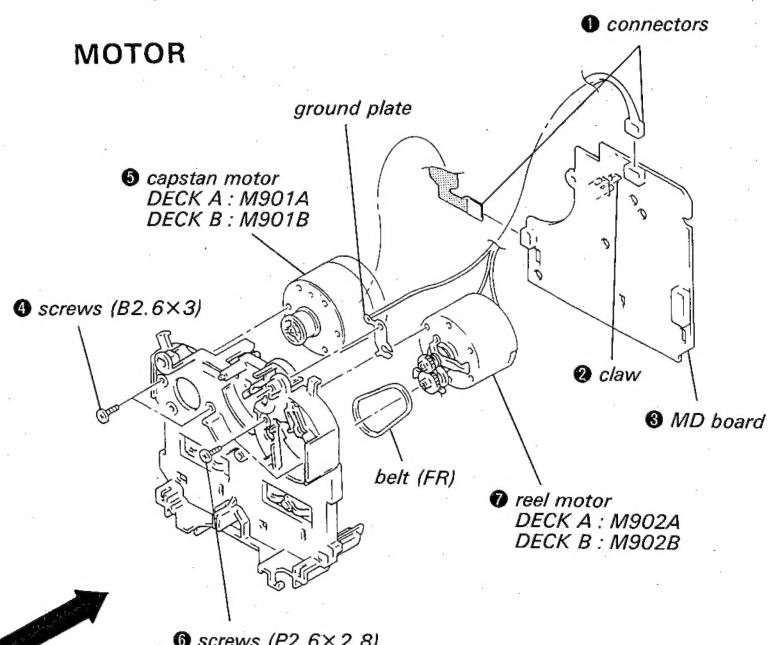
- ① Press the EJECT button.



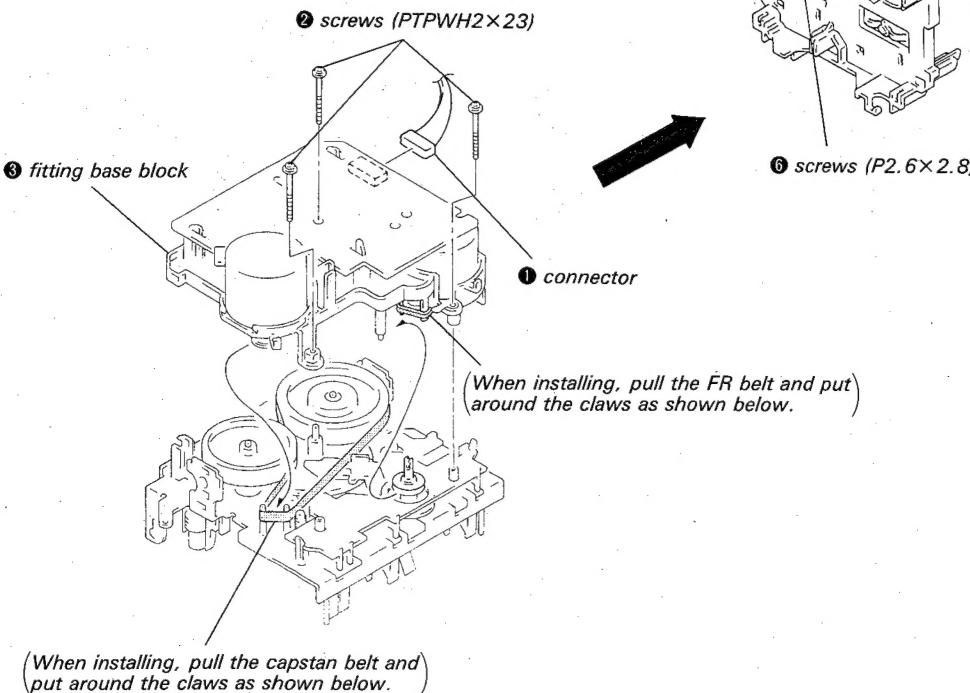
HEAD



MOTOR



FITTING BASE BLOCK



SECTION 3 MECHANICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab;

record/playback/erase head	rubber belts
pinch roller	capstan
	idler
- Demagnetize the record/playback head with a head demagnetizer.
(Head demagnetizer do not approach for the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	35 to 60g·cm (0.49 to 0.83 oz·inch)
FWD Back tension	CQ-102C	2 to 6g·cm (0.03 to 0.08 oz·inch)
REV	CQ-102RC	35 to 60g·cm (0.49 to 0.83 oz·inch)
REV Back tension	CQ-102RC	2 to 6g·cm (0.03 to 0.08 oz·inch)
FF, REW	CQ-201B	70 to 110g·cm (0.98 to 1.52 oz·inch)

SECTION 4 ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in the service manual. As a rule, adjustment about playback should be performed before adjustment about recording. The adjustments should be performed for both L-CH and R-CH.

- Test Mode

The Test mode is activated by shorting Test Point Service mode (IC805 34 pin changes over to "L") with the POWER switch in OFF position, then turning on the POWER switch.

In this mode, the following functions operate:

1. Source monitor

Line mute is cancelled during recording.

2. High speed playback

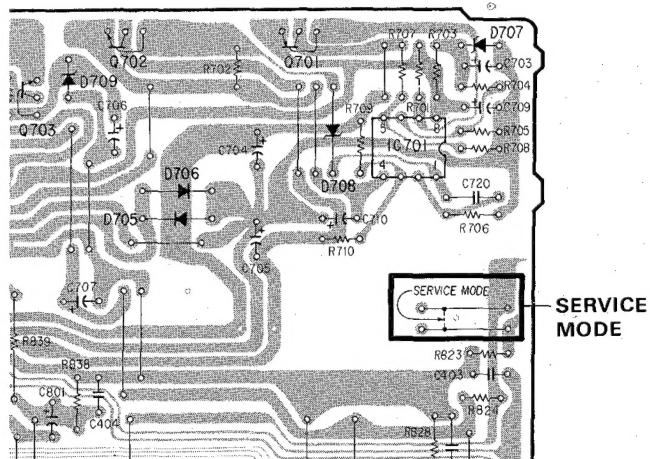
High speed playback is executed when the HIGH SPEED (DUBBING) button is pressed during playback. Normal speed playback is restored when the button is pressed again.

3. Record memory

The tape counter is reset to "0" at the record start point.

After adjustment, open the Service mode to cancel the Test mode.

[MAIN BOARD] (CONDUCTOR SIDE)



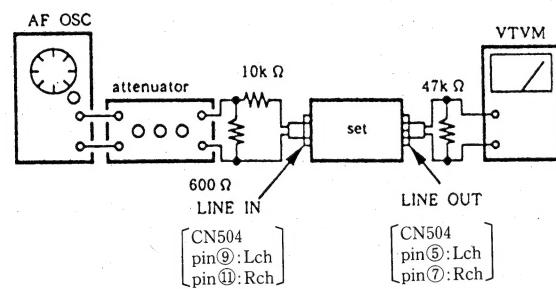
- Switches and controls should be set as follows unless otherwise specified.

NR switch : OFF
DIR MODE switch : \leftrightarrow

Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Record Mode



Standard Input Level

input terminal	LINE IN
source impedance	10kΩ
input level	0.25V (-10dB)

Standard Output Level

output terminal	LINE OUT
load impedance	47kΩ
output level	0.44V (-5dB)

Test tape

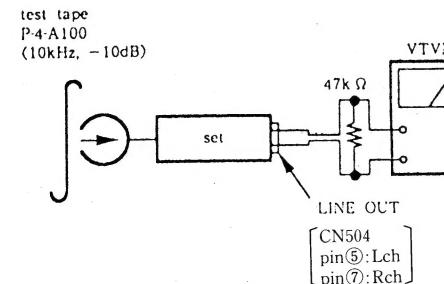
Type	Signal	Used for
P-4-A100	10kHz, -10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

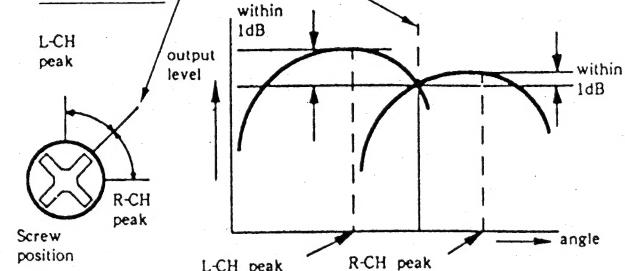
DECK A DECK B

Procedure:

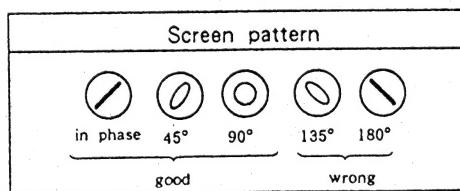
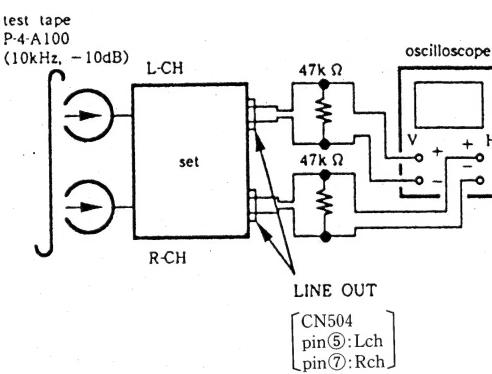
- Mode: FWD playback



- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

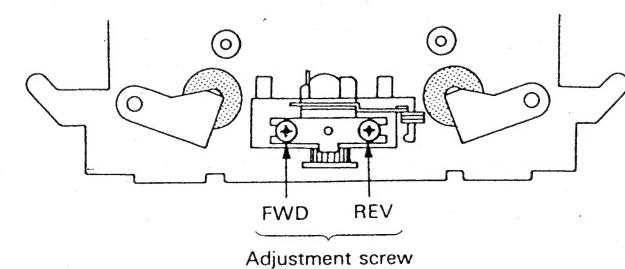


- Phase Check
Mode: playback



- Set in the REV mode and repeat the step 1-3.
- After the adjustment, lock the screws with locking compound.

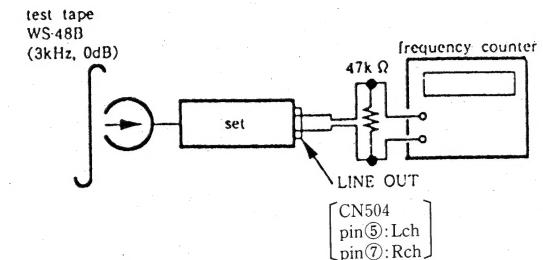
Adjustment Location: Record/playback head.



Tape Speed Adjustment DECK A DECK B

Procedure:

Mode: playback



Perform high speed adjustment before normal speed adjustment.

(High speed adjustment)

- Continue pressing the SYNCHRO DUBBING HIGH SPEED switch.
- Check that frequency counter reading is within the standard value $6,000 \pm 60\text{Hz}$.
- If out of the standard, adjust each RV72 so that the frequency counter reading satisfies $6,000 \pm 60\text{Hz}$ on both A and B decks.
- Change over to Rev playback status, and repeat the above steps 1 to 3.

(Normal speed adjustment)

- Continue pressing the SYNCHRO DUBBING NORM SPEED switch.
- Check that the frequency counter reading is within the standard value $3,000 \pm 30\text{Hz}$.
- If out of the standard, adjust each RV71 so that the frequency counter reading satisfies $3,000 \pm 30\text{Hz}$ on both A and B decks.
- Change over to REV playback status, and repeat the above steps 1 to 3.

Frequency difference between the beginning and the end of the tape should be within 3%.

Frequency difference between deck A and deck B the beginning of the tape should be within 1.0%.

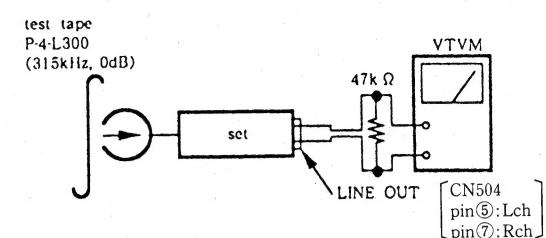
Adjustment Location:
MD-A, MD-B board

Playback Level Adjustment

DECK A DECK B

Procedure:

Mode: playback



Adjust RV11 (L-CH), RV21 (R-CH) so that the reading on VTVM meets the adjustment limits below.

Adjustment Limits:

LINE OUT level: $-7.7 \pm 0.5\text{dB}$ (0.30–0.33V)

Level difference between channels: less than 0.5dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: MD-A, MD-B board

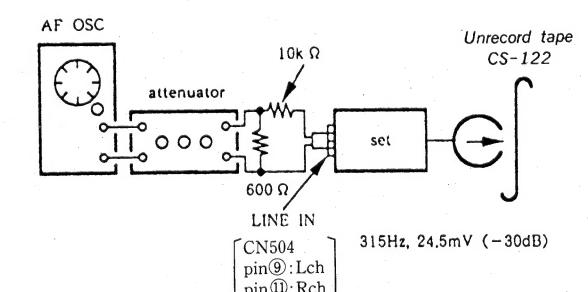
Record Bias Adjustment DECK B

Setting:

REC LEVEL control : Standard Record (See page 7).

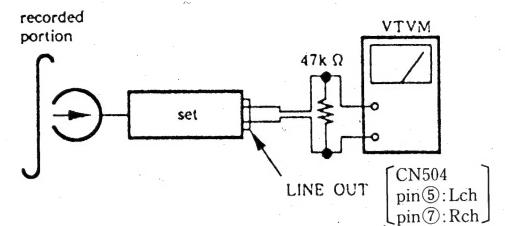
Procedure:

- Mode : record



5-1. CIRCUIT BOARDS LOCATION

2. Mode : playback



Playback the signal recorded in step 1.

Confirm that the 10kHz playback output is $0 \pm 0.5\text{dB}$ relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

Adjustment Location : MD-B board

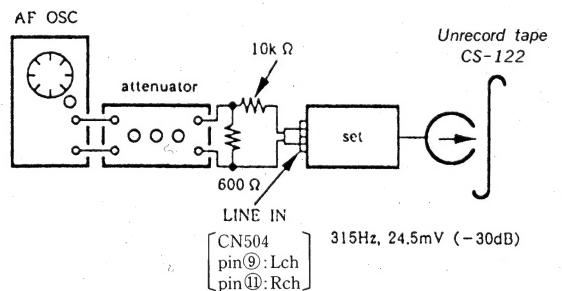
Record Level Adjustment DECK B

Setting :

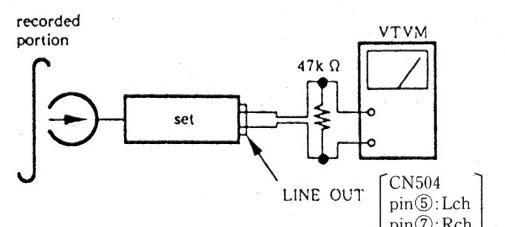
REC LEVEL control : Standard Record (See page 7).

Procedure :

1. Mode: record



2. Mode: playback



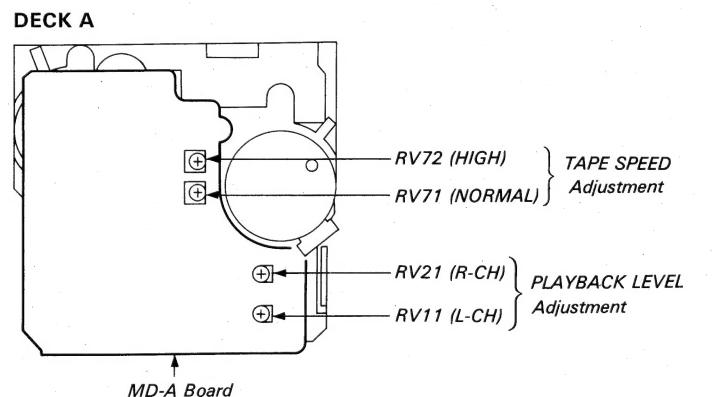
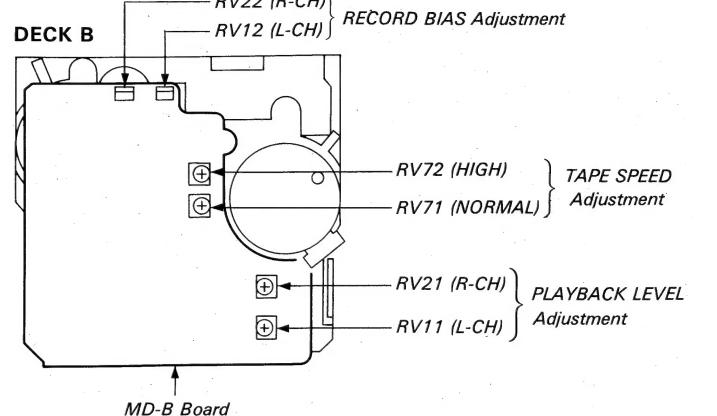
3. Playback the signal recorded in step 1.

Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step 1-2.

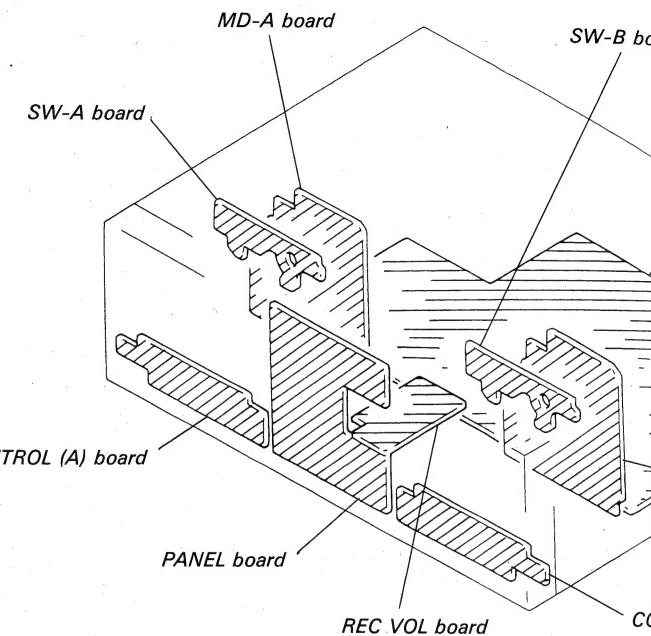
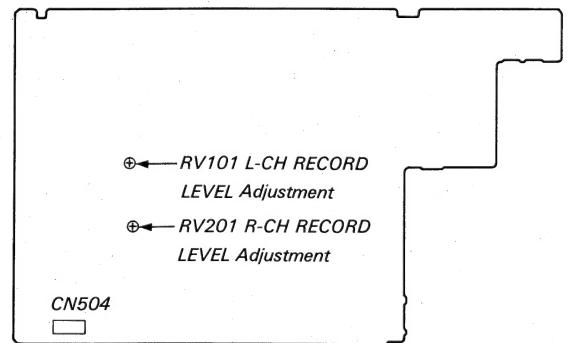
Adjustment Limits : $-7\text{dB} \pm 0.5\text{dB}$ (0.33 – 0.36V)

Adjustment Location : MAIN board (component side)

– Adjustment Parts Location Diagrams –

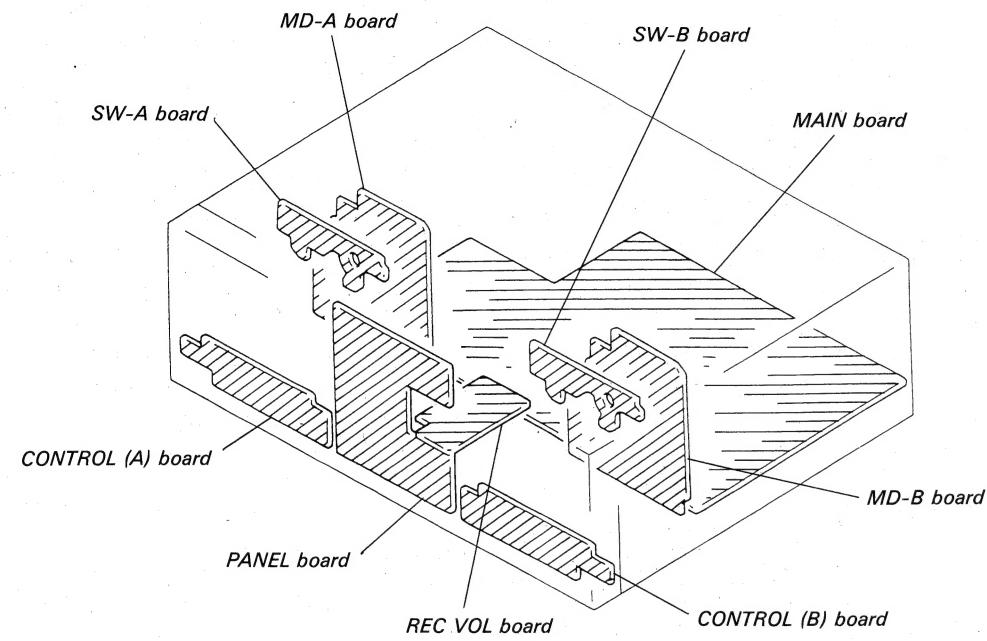


MAIN BOARD (COMPONENT SIDE)



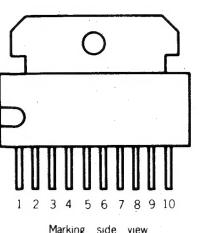
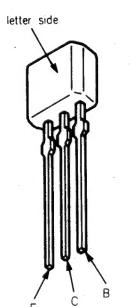
SECTION 5 DIAGRAMS

CUIT BOARDS LOCATION

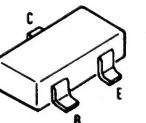


5-2. SEMICONDUCTOR LEAD LAYOUTS

TA7272P

2SA1175-HFE
2SC3623A-LK
DTC144ES

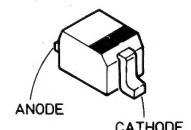
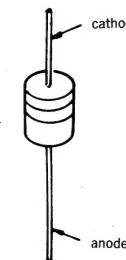
2SA1602



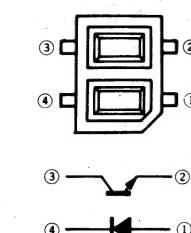
2SB1013-4

2SB1094-LK
2SD2012

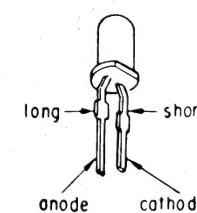
1SS355

HZA6A1L
HZA7A1L
HZA9A2L

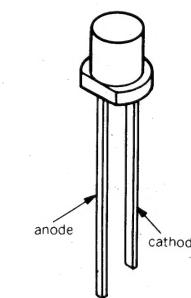
NJL5165K-B



SEL2210S-C



SEL2213C-C

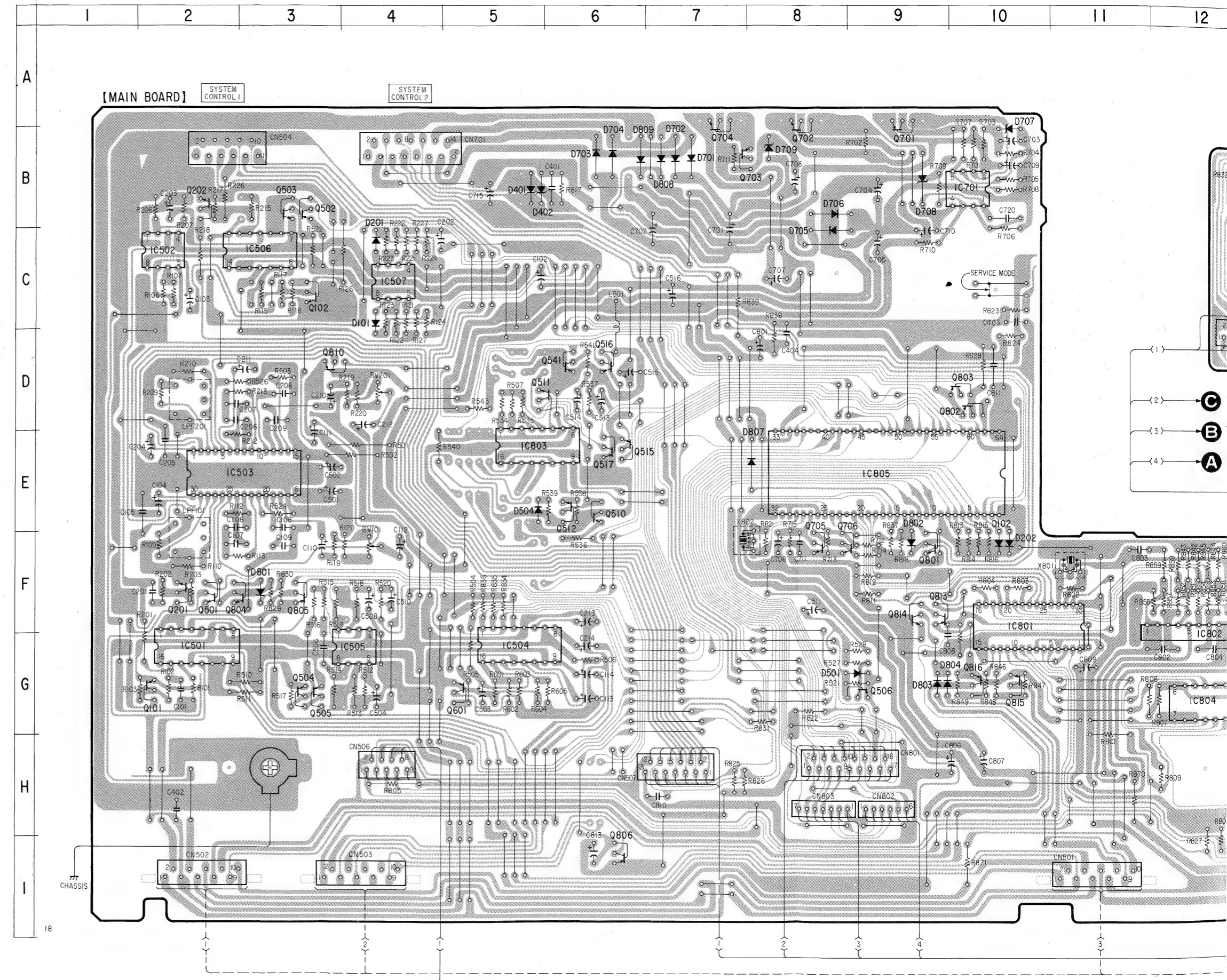


5-3. PRINTED WIRING BOARDS - MAIN section -

• See page 10,11 Circuit boards location and Semiconductor lead layouts.

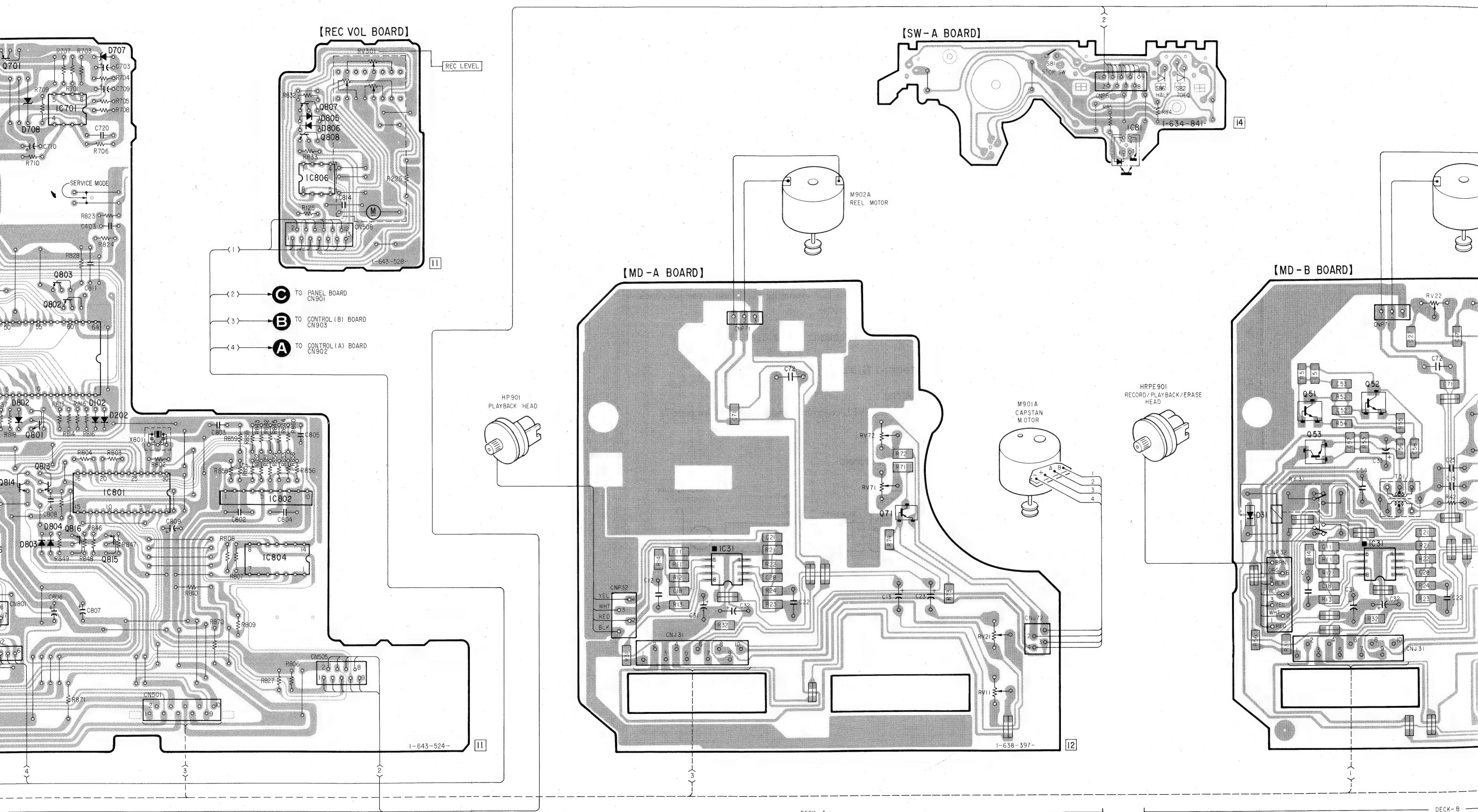
● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D31	G-23	Q51	E-24
D101	C-4	Q52	E-24
D102	F-10	Q53	F-24
D201	C-4	Q71(MD-A)	G-19
D202	F-10	Q71(MD-B)	G-27
D401	B-5	Q101	G-2
D402	B-5	Q102	C-3
D501	G-9	Q201	F-2
D504	E-5	Q202	B-2
D701	B-7	Q501	F-2
D702	B-7	Q502	B-3
D703	B-6	Q503	B-3
D704	B-6	Q504	G-3
D705	B-8	Q505	G-3
D706	B-8	Q506	G-9
D707	B-10	Q510	E-6
D708	B-9	Q511	D-6
D709	B-8	Q512	E-9
D801	F-3	Q514	D-6
D802	F-9	Q515	E-6
D803	G-9	Q516	D-6
D804	G-10	Q601	G-5
D805	B-12	Q701	A-9
D806	B-12	Q702	A-8
D807	E-8	Q703	B-8
D808	B-7	Q704	A-7
D809	B-6	Q705	F-8
IC31(MD-A)	G-17	Q801	F-9
IC31(MD-B)	G-24	Q802	D-10
IC81(SW-A)	C-22	Q803	D-10
IC81(SW-B)	C-29	Q804	F-3
IC501	G-2	Q805	F-3
IC502	C-2	Q806	I-6
IC503	E-3	Q807	B-12
IC504	G-5	Q808	B-12
IC505	G-4	Q810	D-3
IC506	C-3	Q813	F-9
IC507	C-4	Q814	F-9
IC701	B-10	Q815	G-10
IC801	F-10	Q816	G-10
IC802	F-12		
IC803	E-5		
IC804	G-12		
IC805	E-9		
IC806	B-12		

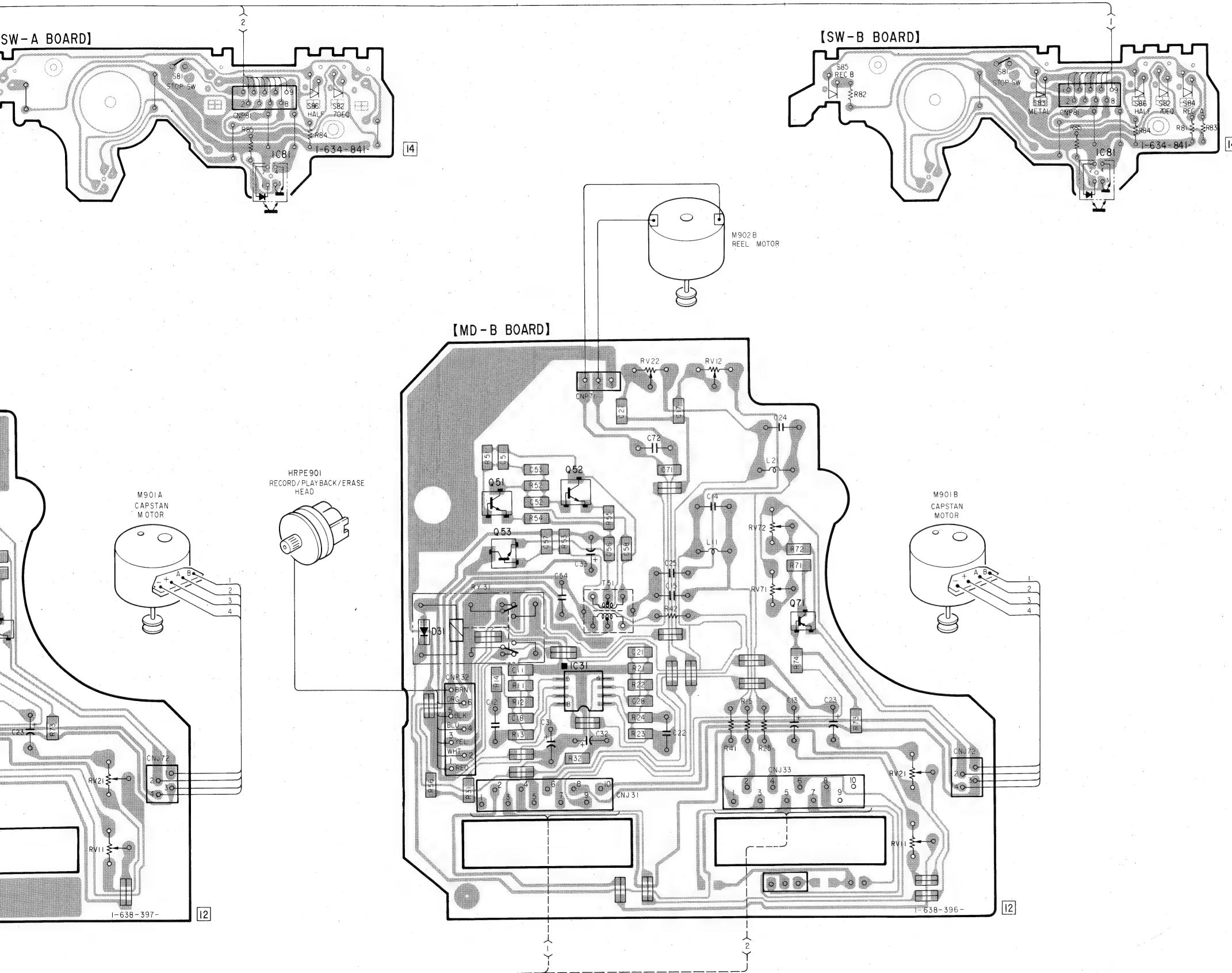


Note:

● — parts extracted from the component side.

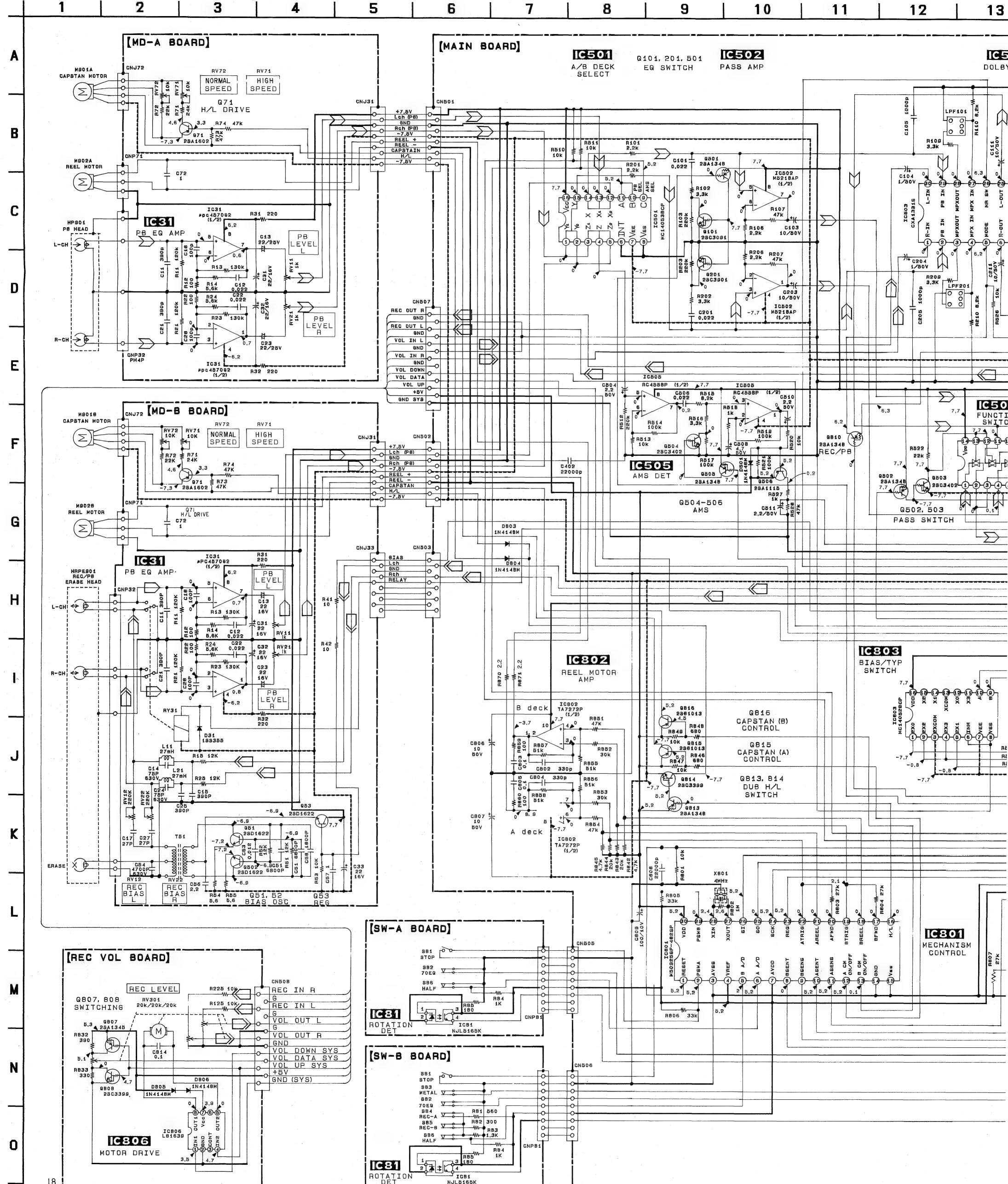


20 21 22 23 24 25 26 27 28 29 30



5-4. SCHEMATIC DIAGRAMS – MAIN section –

- Note:**
 - All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
 - : internal component.
 - : nonflammable resistor.
 - : B+ Line
 - : B- Line
 - : adjustment for repair.
 - Voltage is dc with red under no-signal (detuned) no mark: REC
 - Voltages are taken with red probe. Voltage variations may be due to regulation tolerances.
 - Signal path.
 - : PB (DECK A)
 - : PB (DECK B)
 - : REC (DECK C)

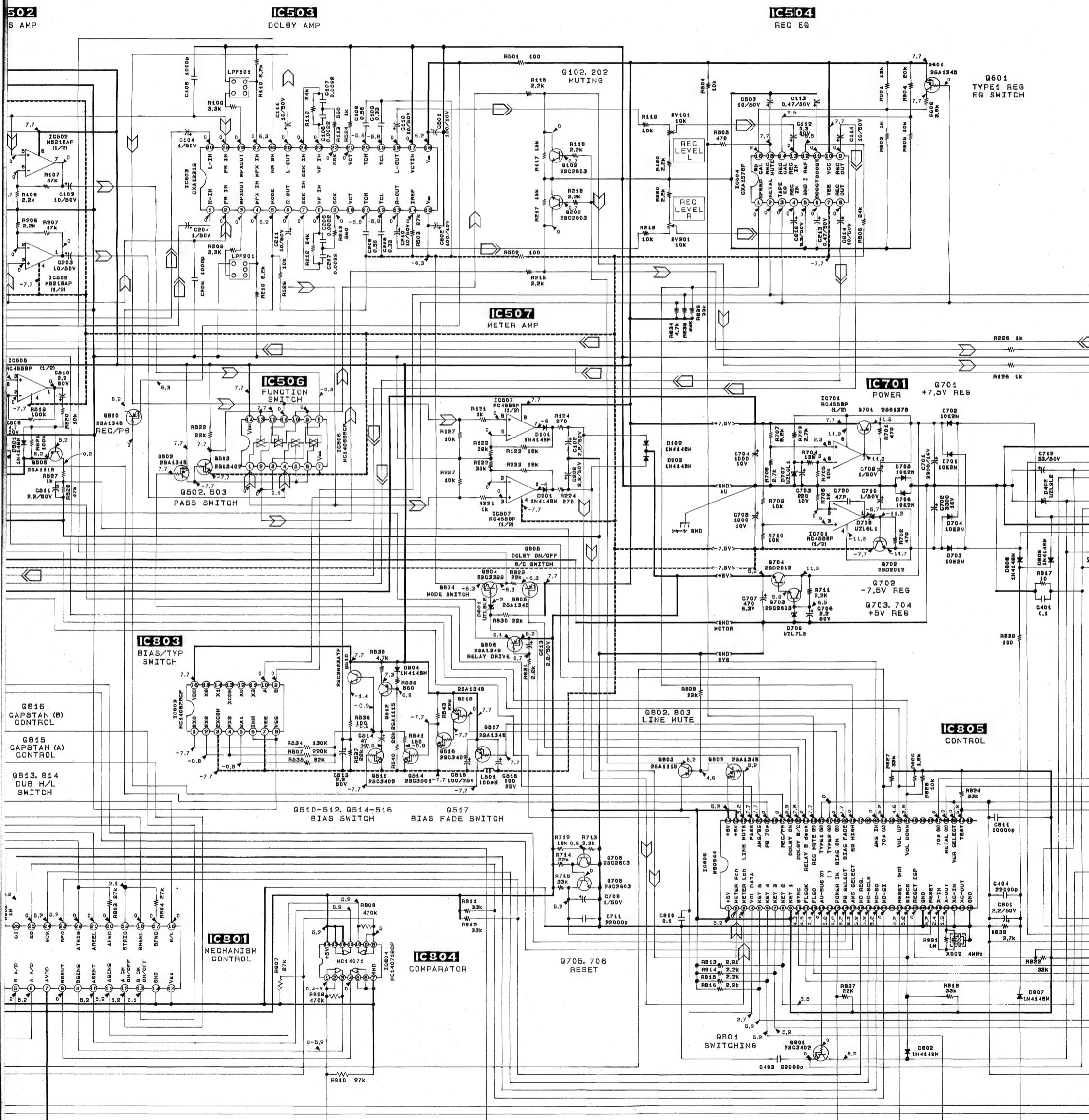


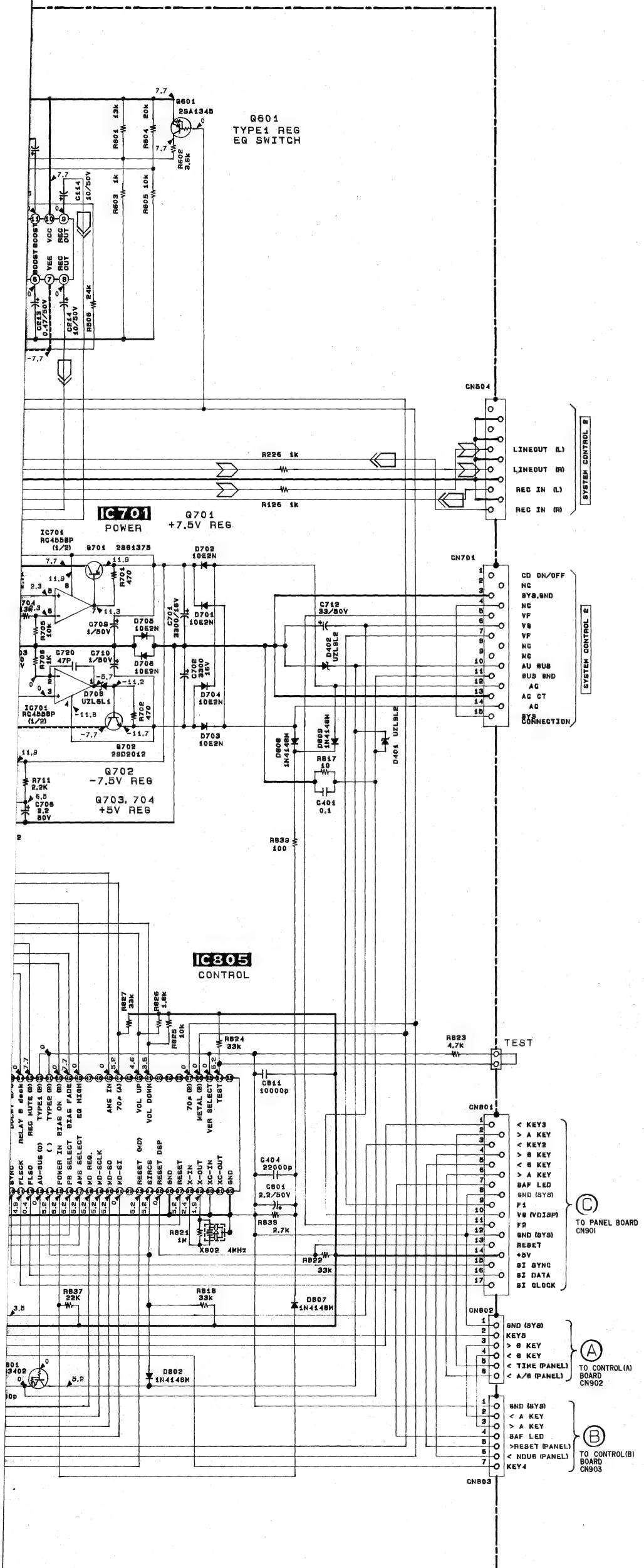
less otherwise noted. pF: $\mu\mu$ F
icated except for electrolytics

$1/4$ W or less unless otherwise

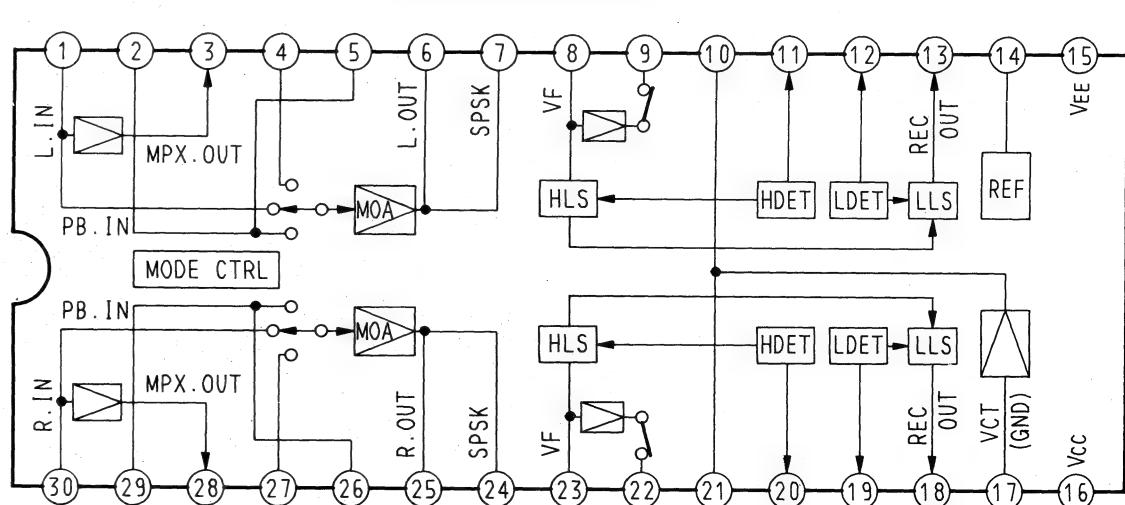
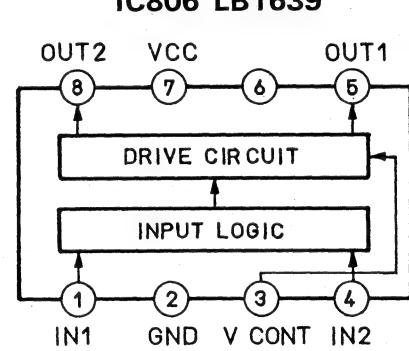
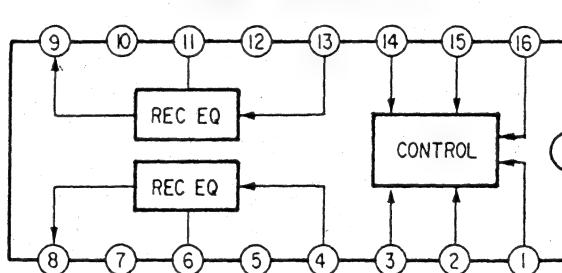
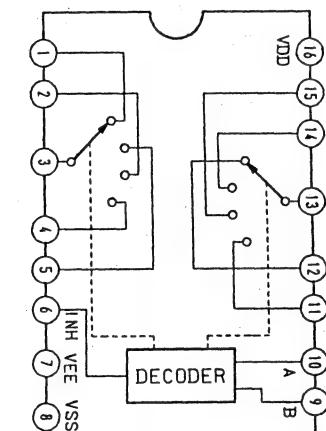
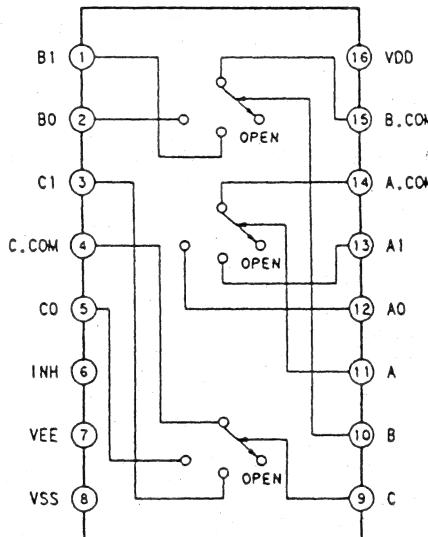
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
no mark: REC
- Voltages are taken with a VOM (Input Impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.
- Signal path:
 □ : PB (DECK A)
 □ : PB (DECK B)
 □ : REC (DECK B)

10 11 12 13 14 15 16 17 18 19 20 21 22





● IC Block Diagrams



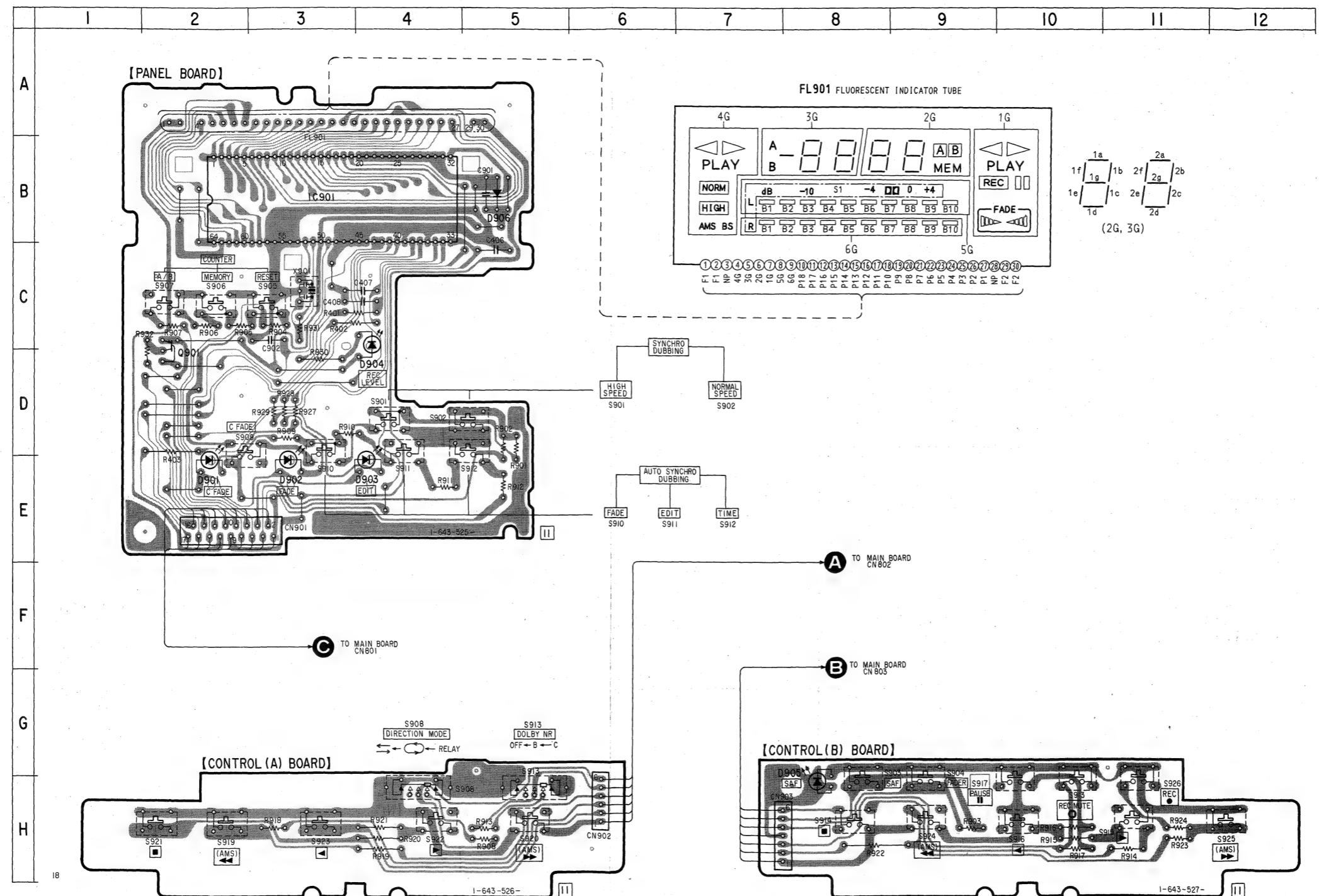
5-5. PRINTED WIRING BOARDS - PANEL section -

• See page 10,11 Circuit boards location and Semiconductor lead layouts.

5-6. SCHEMATIC

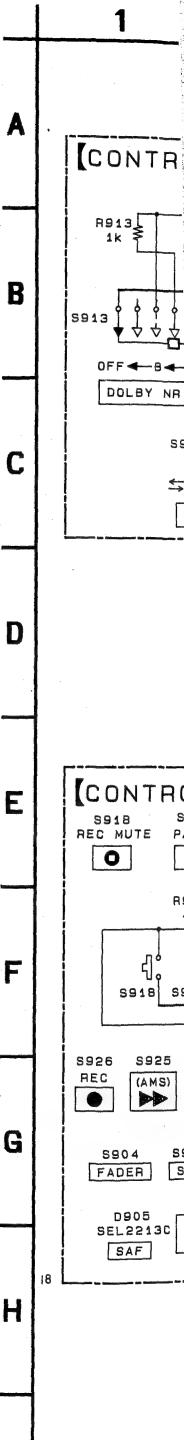
● Semiconductor Location

Ref. No.	Location
D901	E-2
D902	E-3
D903	E-4
D904	D-4
D905	H-8
D906	B-5
IC901	B-3
Q501	D-2



Note:

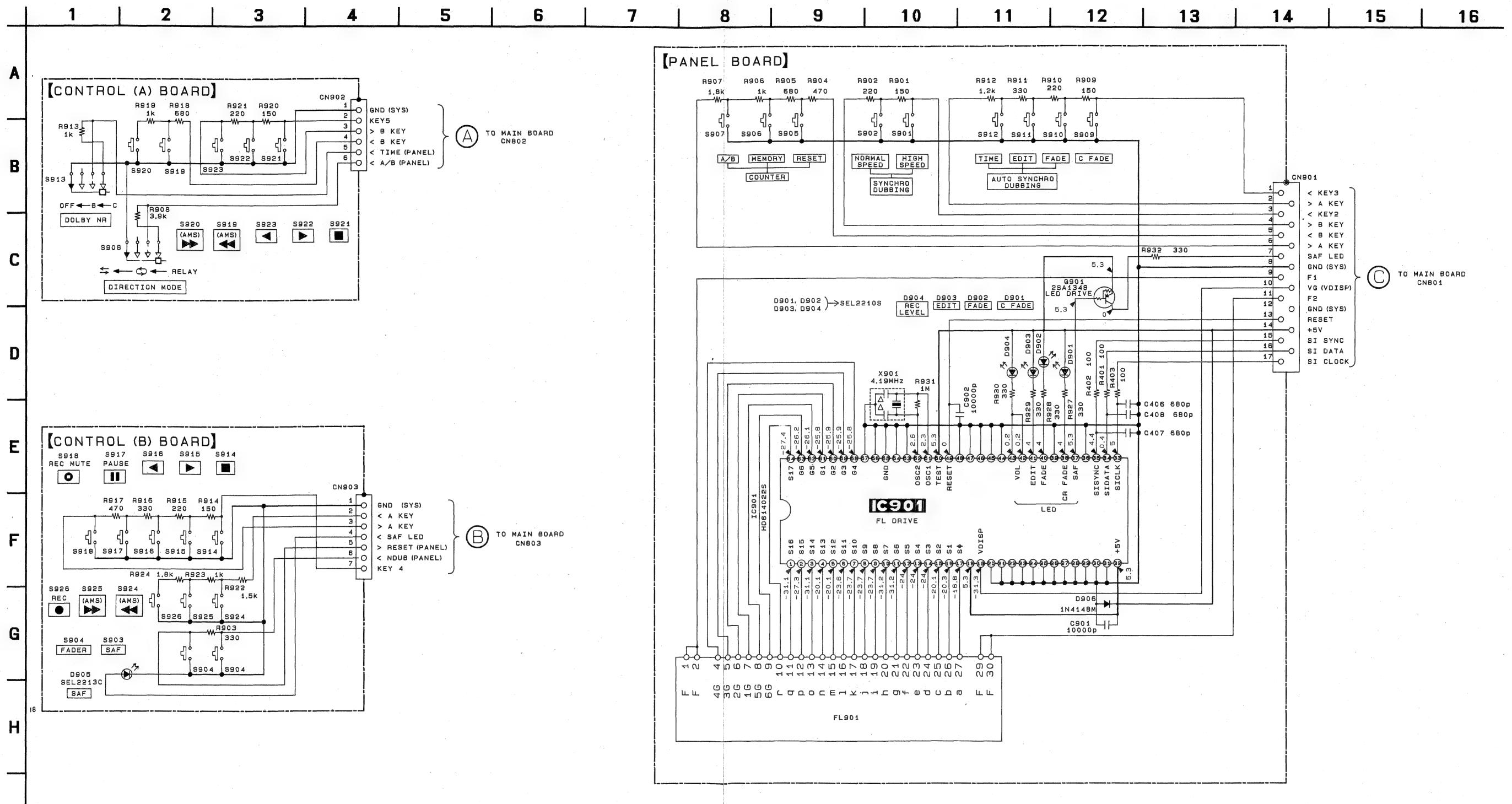
• — : parts extracted from the component side.



5-6. SCHEMATIC DIAGRAMS – PANEL section –

- Note:**

 - All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
 - \triangle : internal component.
 - --- : B+ Line
 - Voltage is dc with respect to ground under no-signal (detuned) conditions.
no mark : REC
 - Voltages are taken with a VOM (Input Impedance $10M\Omega$).
Voltage variations may be noted due to normal production tolerances.



SECTION 6 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.

- Color Indication of Appearance Parts Example:

KNOB, BALANCE(WHITE)...(RED)

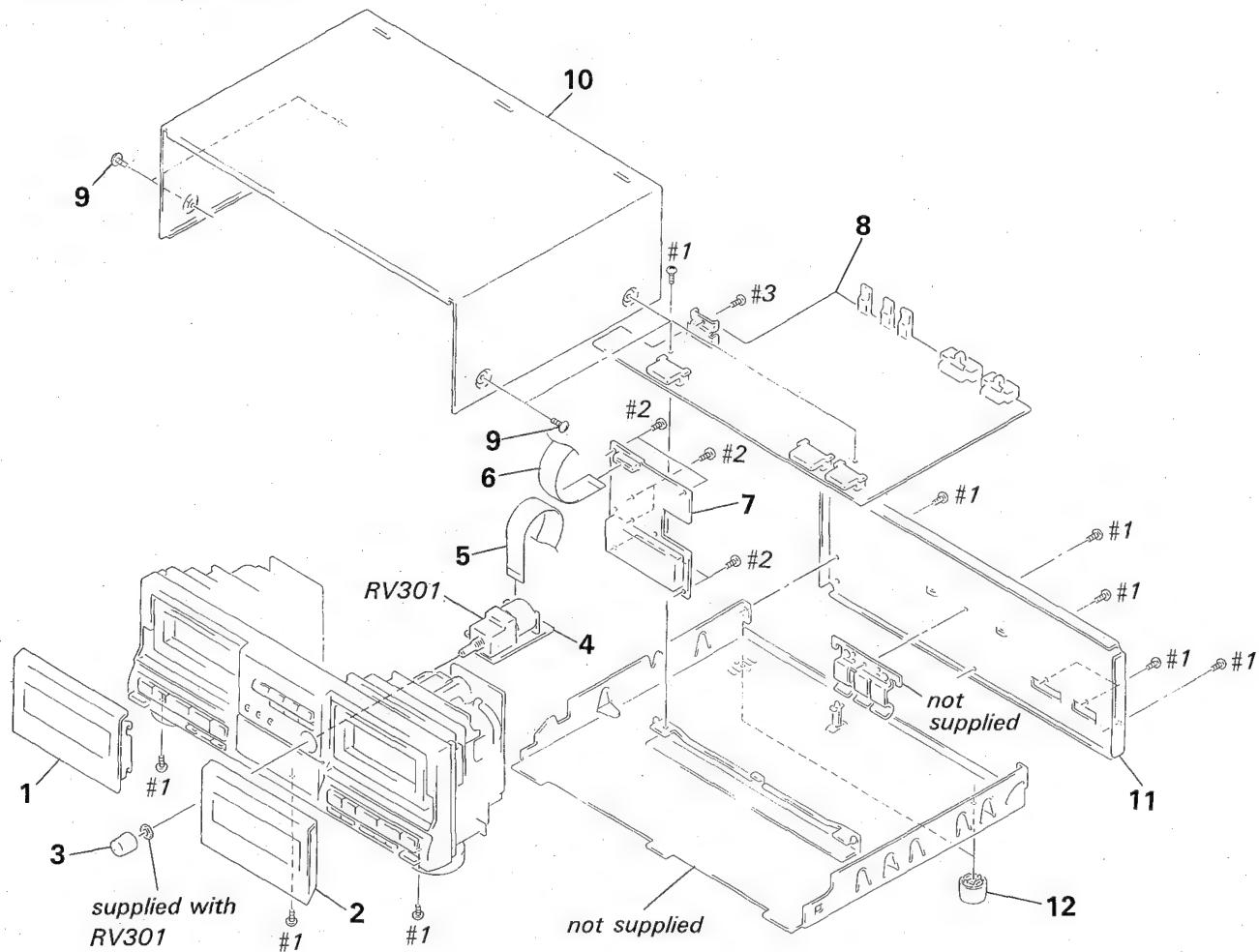
↑ ↑
Parts color Cabinet's color

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.

G:Germany EA:Saudi Arabia

IT:Italian AUS:Australian

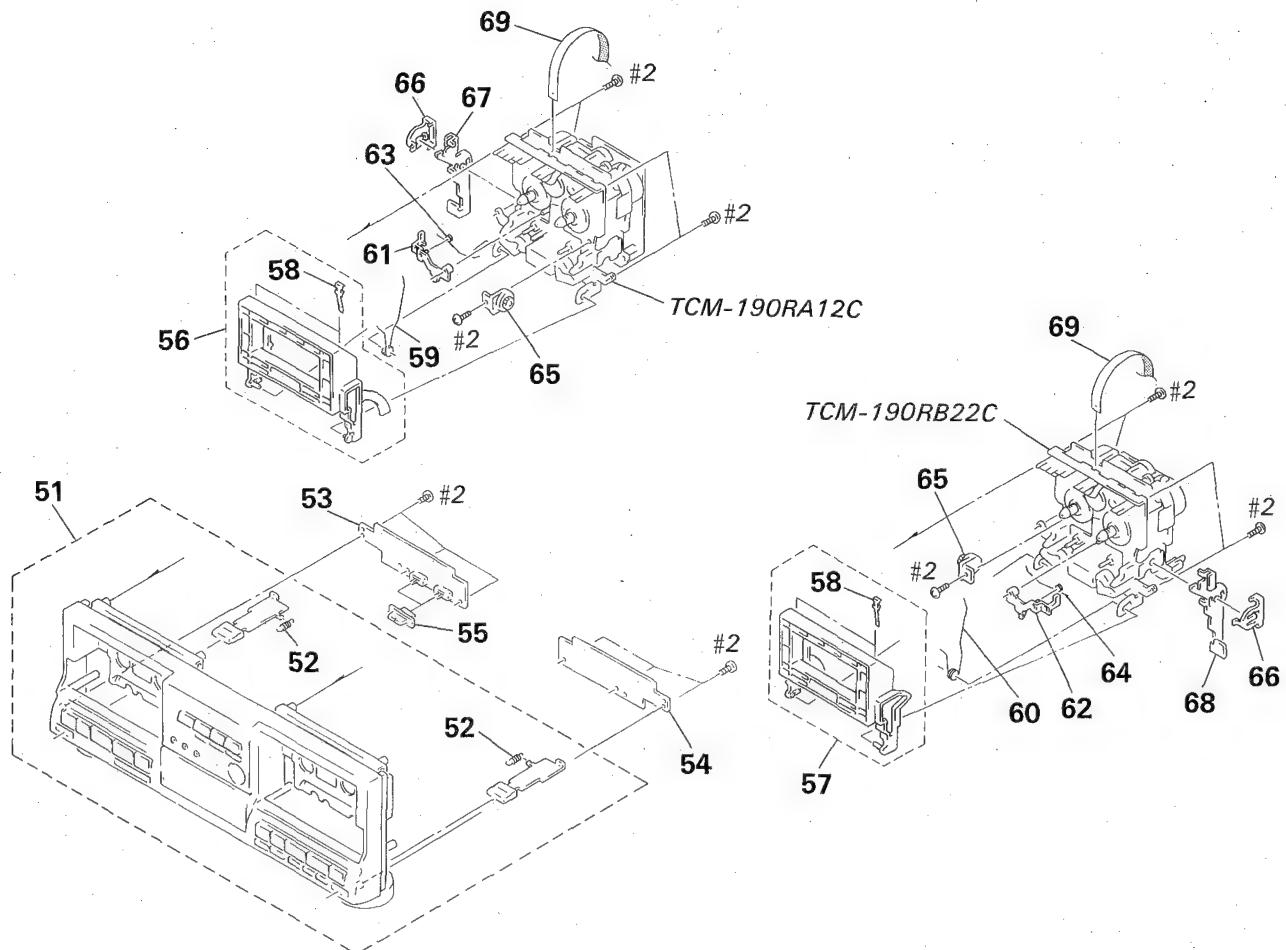
6-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark
1	X-3364-710-1	LID (A) ASSY, CASSETTE (AEP, G, UK, E, EA, AUS)	
1	X-3364-711-1	LID (A) ASSY, CASSETTE (IT)	
2	X-3364-714-1	LID (B) ASSY, CASSETTE (AEP, G, UK, E, EA, AUS)	
2	X-3364-718-1	LID (B) ASSY, CASSETTE (IT)	
3	4-950-651-21	KNOB (DIA. 16), ROUND (IT)	
3	4-950-651-31	KNOB (DIA. 16), ROUND (AEP, G, UK, E, EA, AUS)	
* 4	1-643-528-11	REC VOL BOARD	
* 5	1-574-726-11	WIRE, FLAT TYPE (13 CORE)	

Ref. No.	Part No.	Description	Remark
6	1-690-907-11	WIRE (FLAT TYPE) (17 CORE)	
* 7	A-2006-747-A	PANEL BOARD, COMPLETE	
* 8	A-2006-746-A	MAIN BOARD, COMPLETE	
9	3-363-099-01	SCREW (CASE +3X8 TP2)	
* 10	4-939-803-31	CASE (AEP, G, UK, E, EA, AUS)	
* 10	4-939-803-71	CASE (IT)	
* 11	3-377-136-31	PANEL, BACK (AEP, IT, UK, E, EA, AUS)	
* 11	3-377-136-41	PANEL, BACK (G)	
12	4-931-169-01	FOOT	
RV301	1-241-891-11	RES. VAR. CARBON 20KX3 (REC LEVEL)	

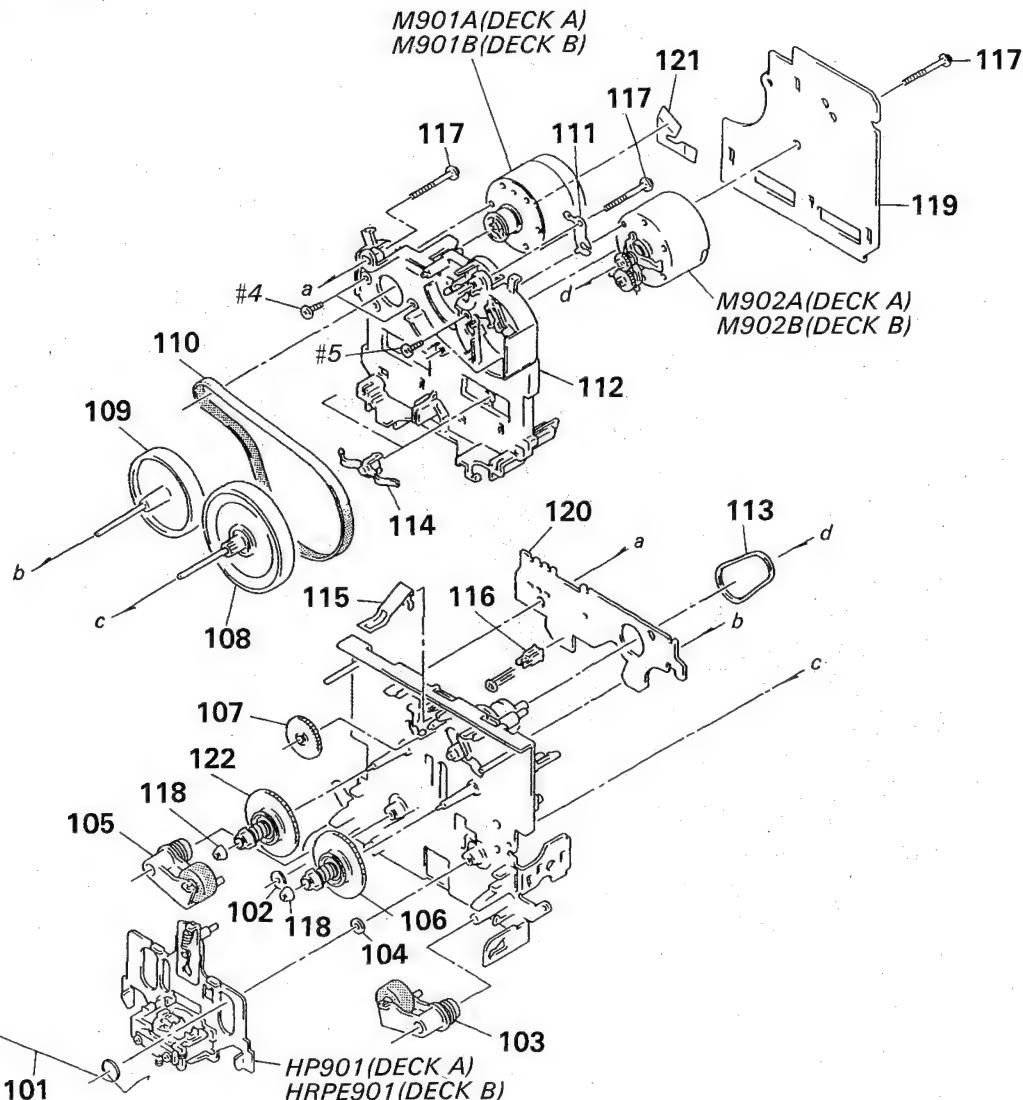
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-3364-708-1	PANEL ASSY, FRONT (AEP, G, UK, E, EA, AUS)	
51	X-3364-709-1	PANEL ASSY, FRONT (IT)	
52	3-662-752-21	SPRING, TENSION	
* 53	1-643-526-11	CONTROL (A) BOARD	
* 54	1-643-527-11	CONTROL (B) BOARD	
55	3-377-120-01	KNOB (SLIDE) (AEP, G, UK, E, EA, AUS)	
55	3-377-120-11	KNOB (SLIDE) (IT)	
56	X-3340-194-1	HOLDER (L) ASSY, CASSETTE	
57	X-3340-195-1	HOLDER (R) ASSY, CASSETTE	
58	3-308-823-11	SPRING	
59	3-354-959-01	SPRING (LOADING L), TORSION	

Ref. No.	Part No.	Description	Remark
60	3-354-960-01	SPRING (LOADING R), TORSION	
61	3-354-955-01	LEVER (EJ SAFETY LEVER L)	
62	3-354-956-01	LEVER (EJ SAFETY LEVER R)	
63	3-354-961-01	SPRING (EJ SAFETY SPRING L)	
64	3-354-962-01	SPRING (EJ SAFETY SPRING R)	
65	3-354-963-01	DAMPER	
66	3-354-957-01	JOINT (LOCK LEVER)	
* 67	3-363-638-01	LEVER (LOCK LEVER L)	
* 68	3-363-639-01	LEVER (LOCK LEVER R)	
69	1-690-906-11	WIRE (FLAT TYPE) (9 CORE)	

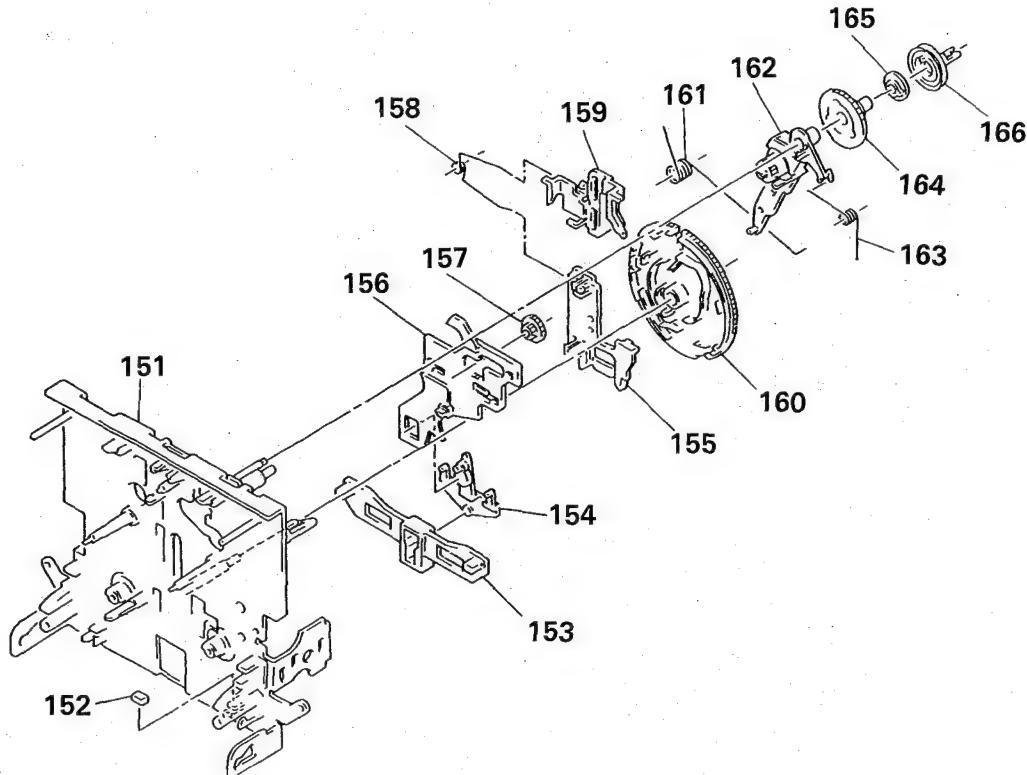
6-3. MECHANISM SECTION 1

(TCM-190RA12C)
(TCM-190RB22C)

Ref. No.	Part No.	Description	Remark
101	3-359-455-01	SPRING, TORSION	
102	3-356-714-01	WASHER	
103	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY	
104	3-356-713-01	WASHER	
105	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY	
106	X-3359-404-1	TABLE ASSY, REEL	
107	3-359-424-01	GEAR (REV GEAR)	
108	X-3359-406-1	FLYWHEEL (FWD) COMPLETE ASSY (DECK A)	
108	X-3364-554-1	FLYWHEEL (FWD) ASSY (DECK B)	
109	X-3359-410-1	FLYWHEEL (REV) ASSY	
110	3-359-417-01	BELT (FLAT), CAPSTAN	
111	3-359-450-01	PLATE, GROUND	
* 112	3-359-436-01	BASE (THRUST RETAINER), FITTING	
113	3-359-466-01	BELT (FR), SQUARE	
114	3-575-321-00	RETAINER, THRUST, CAPSTAN	
115	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF	

Ref. No.	Part No.	Description	Remark
116	3-343-419-01	HOLDER (S SENSER A)	
117	3-359-414-01	SCREW (+PTPWH 2X23)	
118	3-362-308-01	CAP (REEL)	
* 119	A-2006-399-A	MD-A BORAD, COMPLETE (DECK A)	
* 119	A-2006-400-A	MD-B BOARD, COMPLETE (DECK B)	
* 120	1-634-841-14	SW-A BOARD (DECK A)	
* 120	1-634-841-14	SW-B BOARD (DECK B)	
121	1-638-983-11	MOTOR FLEXIBLE BOARD	
122	X-3362-078-1	TABLE ASSY (B), REEL	
HP901	A-2003-837-A	BASE ASSY, HEAD (PB) (DECK A)	
		HPRE901A-2003-838-A BASE ASSY, HEAD (REC/PB/ERASE) (DECK B)	
	M901A	X-3359-417-1 MOTOR ASSY (CAPSTAN) (DECK A)	
	M901B	X-3359-417-1 MOTOR ASSY (CAPSTAN) (DECK B)	
	M902A	X-3363-501-1 MOTOR ASSY (REEL) (DECK A)	
	M902B	X-3363-501-1 MOTOR ASSY (REEL) (DECK B)	

6-4. MECHANISM SECTION 2

(TCM-190RA12C)
(TCM-190RB22C)

Ref. No.	Part No.	Description	Remark
151	X-3363-790-1	CHASSIS ASSY. MECHANICAL (DECK A)	
151	X-3359-415-1	CHASSIS ASSY. MECHANICAL (DECK B)	
152	3-359-459-01	SPACER	
* 153	3-359-425-01	SLIDER (REVERSE SLIDER)	
154	3-359-426-01	LEVER (REVERSE LEVER)	
* 155	3-359-427-01	SLIDER (LEVERSE SLIDER)	
* 156	3-359-415-01	SLIDER (TRIGGER SLIDER)	
157	3-359-448-01	GEAR (TRIGGER)	
158	3-359-454-01	SPRING, TORSION	

Ref. No.	Part No.	Description	Remark
159	3-359-429-01	SLIDER (BRAKE PLATE)	
160	3-359-420-01	GEAR (CAM GEAR)	
161	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
162	X-3359-405-1	LEVER (FR ARM) ASSY	
163	3-359-453-01	SPRING (FR ARM), TORSION	
164	3-359-419-01	GEAR (FR GEAR)	
165	3-359-421-01	CLUTCH (REEL DISK)	
166	3-359-418-01	PULLEY (FR PULLEY)	

SECTION 7

ELECTRICAL PARTS LIST

CONTROL (A)

COHTROL (B) MAIN

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

In each case, μ , for example:

μA : μA ... μPA : μPA ...
 μPB : μPB ... μPC : μPC ...
 μPD : μPD ...

• CAPACITORS

 μF

• COILS

 μH

When indication parts by reference number, please include the board name.

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
* CN902 1-564-499-11 PIN, CONNECTOR 6P			
< RESISTOR >			
R908	1-249-424-11 CARBON	3.9K 5% 1/4W	
R913	1-249-417-11 CARBON	1K 5% 1/4W	
R918	1-249-415-11 CARBON	680 5% 1/4W	
R919	1-249-417-11 CARBON	1K 5% 1/4W	
R920	1-249-407-11 CARBON	150 5% 1/4W	
R921	1-249-409-11 CARBON	220 5% 1/4W	
< SWITCH >			
S908	1-572-378-11 SWITCH, SLIDE (DIRECTION MODE)		
S913	1-572-378-11 SWITCH, SLIDE (DOLBY NR)		
S919	1-554-303-21 SWITCH, TACTILE (AMS REW)		
S920	1-554-303-21 SWITCH, TACTILE (AMS FF)		
S921	1-554-303-21 SWITCH, TACTILE (STOP)		
S922	1-554-303-21 SWITCH, TACTILE (FWD)		
S923	1-554-303-21 SWITCH, TACTILE (REW)		

* .	1-643-527-11 CONTROL (B) BOARD		

< CONNECTOR >			
* CN903	1-564-500-11 PIN, CONNECTOR 7P		
< DIODE >			
D905	8-719-302-23 DIODE SEL2213C-C		

Ref. No.	Part No.	Description	Remark
< RESISTOR >			

< SWITCH >			
S903	1-554-303-21 SWITCH, TACTILE (SAF)		
S904	1-554-303-21 SWITCH, TACTILE (FADER)		
S914	1-554-303-21 SWITCH, TACTILE (STOP)		
S915	1-554-303-21 SWITCH, TACTILE (FWD)		
S916	1-554-303-21 SWITCH, TACTILE (REV)		
S917	1-554-303-21 SWITCH, TACTILE (PAUSE)		
S918	1-554-303-21 SWITCH, TACTILE (REC MUTE)		
S924	1-554-303-21 SWITCH, TACTILE (AMS REW)		
S925	1-554-303-21 SWITCH, TACTILE (AMS FF)		
S926	1-554-303-21 SWITCH, TACTILE (REC)		

* .	A-2006-746-A MAIN BOARD, COMPLETE		

*	4-942-204-01 PLATE, GROUND		
	7-685-645-79 SCREW +BVTP	3X6 TYPE2 N-S	
< CAPACITOR >			
C101	1-136-157-00 FILM	0.022uF 5% 50V	
C102	1-126-161-11 ELECT	2.2uF 20% 50V	
C103	1-126-059-11 ELECT	10uF 20% 50V	
C104	1-126-301-11 ELECT	1uF 20% 50V	
C105	1-162-294-31 CERAMIC	0.001uF 10% 50V	

MAIN

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark	
C106	1-130-475-00	MYLAR	0.0022uF	5%	50V	C711	1-101-005-00	CERAMIC	22000PF	50V
C107	1-130-475-00	MYLAR	0.0022uF	5%	50V	C712	1-126-867-11	ELECT	33uF	20% 50V
C108	1-136-174-00	FILM	0.56uF	5%	50V	C720	1-162-215-31	CERAMIC	47PF	5% 50V
C109	1-136-171-00	FILM	0.33uF	5%	50V	C801	1-126-161-11	ELECT	2.2uF	20% 50V
C110	1-126-059-11	ELECT	10uF	20%	50V	C802	1-162-288-31	CERAMIC	330PF	10% 50V
C111	1-126-059-11	ELECT	10uF	20%	50V	C803	1-136-165-00	FILM	0.1uF	5% 50V
C112	1-126-162-11	ELECT	3.3uF	20%	50V	C804	1-162-288-31	CERAMIC	330PF	10% 50V
C113	1-126-301-11	ELECT	0.47uF	20%	50V	C805	1-136-165-00	FILM	0.1uF	5% 50V
C114	1-126-059-11	ELECT	10uF	20%	50V	C806	1-126-059-11	ELECT	10uF	20% 50V
C201	1-136-157-00	FILM	0.022uF	5%	50V	C807	1-126-059-11	ELECT	10uF	20% 50V
C202	1-126-161-11	ELECT	2.2uF	20%	50V	C808	1-101-005-00	CERAMIC	22000PF	50V
C203	1-126-059-11	ELECT	10uF	20%	50V	C809	1-124-994-11	ELECT	100uF	20% 10V
C204	1-126-301-11	ELECT	1uF	20%	50V	C810	1-136-165-00	FILM	0.1uF	5% 50V
C205	1-162-294-31	CERAMIC	0.001uF	10%	50V	C811	1-161-379-00	CERAMIC	0.01uF	20% 25V
C206	1-130-475-00	MYLAR	0.0022uF	5%	50V	C813	1-126-161-11	ELECT	2.2uF	20% 50V
C207	1-130-475-00	MYLAR	0.0022uF	5%	50V	< CONNECTOR >				
C208	1-136-174-00	FILM	0.56uF	5%	50V	* CN501	1-580-784-11	CONNECTOR, BOARD TO BOARD		
C209	1-136-171-00	FILM	0.33uF	5%	50V	* CN502	1-580-784-11	CONNECTOR, BOARD TO BOARD		
C210	1-126-059-11	ELECT	10uF	20%	50V	* CN503	1-580-784-11	CONNECTOR, BOARD TO BOARD		
C211	1-126-059-11	ELECT	10uF	20%	50V	* CN504	1-566-858-11	SOCKET, CONNECTOR 11P		
C212	1-126-162-11	ELECT	3.3uF	20%	50V	* CN505	1-568-828-11	SOCKET, CONNECTOR 9P		
C213	1-126-300-11	ELECT	0.47uF	20%	50V	* CN506	1-568-828-11	SOCKET, CONNECTOR 9P		
C214	1-126-059-11	ELECT	10uF	20%	50V	* CN507	1-568-832-11	SOCKET, CONNECTOR 13P		
C401	1-164-159-11	CERAMIC	0.1uF		50V	* CN701	1-566-859-11	SOCKET, CONNECTOR 15P		
C402	1-101-005-00	CERAMIC	22000PF		50V	* CN801	1-568-836-11	SOCKET, CONNECTOR 17P		
C403	1-101-005-00	CERAMIC	22000PF		50V	* CN802	1-564-340-00	PIN, CONNECTOR 6P		
C404	1-101-005-00	CERAMIC	22000PF		50V	* CN803	1-564-341-11	PIN, CONNECTOR 7P		
C501	1-124-994-11	ELECT	100uF	20%	10V	< DIODE >				
C502	1-124-994-11	ELECT	100uF	20%	10V	D101	8-719-987-63	DIODE	1N4148M	
C503	1-126-059-11	ELECT	10uF	20%	50V	D102	8-719-987-63	DIODE	1N4148M	
C504	1-126-161-11	ELECT	2.2uF	20%	50V	D201	8-719-987-63	DIODE	1N4148M	
C508	1-126-163-11	ELECT	4.7uF	20%	50V	D202	8-719-987-63	DIODE	1N4148M	
C510	1-126-161-11	ELECT	2.2uF	20%	50V	D401	8-719-933-54	DIODE	HZS9A2L	
C511	1-126-161-11	ELECT	2.2uF	20%	50V	D402	8-719-933-54	DIODE	HZS9A2L	
C513	1-126-161-11	ELECT	2.2uF	20%	50V	D501	8-719-987-63	DIODE	1N4148M	
C514	1-124-910-11	ELECT	47uF	20%	50V	D504	8-719-987-63	DIODE	1N4148M	
C515	1-124-478-11	ELECT	100uF	20%	25V	D701	8-719-200-77	DIODE	10E2N	
C516	1-124-478-11	ELECT	100uF	20%	25V	D702	8-719-200-77	DIODE	10E2N	
C506	1-161-494-00	CERAMIC	0.022uF		25V	D703	8-719-200-77	DIODE	10E2N	
C701	1-124-887-00	ELECT	3300uF	20%	16V	D704	8-719-200-77	DIODE	10E2N	
C702	1-124-887-00	ELECT	3300uF	20%	16V	D705	8-719-200-77	DIODE	10E2N	
C703	1-126-101-11	ELECT	100uF	20%	16V	D706	8-719-200-77	DIODE	10E2N	
C704	1-124-473-11	ELECT	1000uF	20%	10V	D707	8-719-933-33	DIODE	HZS6A1L	
C705	1-124-473-11	ELECT	1000uF	20%	10V	D708	8-719-933-33	DIODE	HZS6A1L	
C706	1-126-161-11	ELECT	2.2uF	20%	50V	D709	8-719-000-78	DIODE	UZL-7L2	
C707	1-124-472-11	ELECT	47uF	20%	10V	D801	8-719-933-54	DIODE	HZS9A2L	
C708	1-126-301-11	ELECT	1uF	20%	50V					
C709	1-126-301-11	ELECT	1uF	20%	50V					
C710	1-126-301-11	ELECT	1uF	20%	50V					

MAIN

Ref. No.	Part No.	Description	Remark
D802	8-719-987-63	DIODE	1N4148M
D803	8-719-987-63	DIODE	1N4148M

D804	8-719-987-63	DIODE	1N4148M
D807	8-719-987-63	DIODE	1N4148M
D808	8-719-987-63	DIODE	1N4148M
D809	8-719-987-63	DIODE	1N4148M

< IC >

IC501	8-759-140-53	IC	UPD4053BC
IC502	8-759-634-51	IC	M5218AP
IC503	8-752-059-55	IC	CXA1331S
IC504	8-752-055-61	IC	CXA1578P
IC505	8-759-945-58	IC	RC4558P
IC506	8-759-000-49	IC	MC14066BCP
IC507	8-759-945-58	IC	RC4558P
IC701	8-759-945-58	IC	RC4558P
IC801	8-759-635-94	IC	M50925SP-482SP
IC802	8-759-207-05	IC	TA7272P

IC803	8-759-000-48	IC	MC14052BCP
IC804	8-759-240-71	IC	TC4071BP
IC805	8-759-067-45	IC	M50944-180SP

< COIL >

L501	1-408-080-00	INDUCTOR	100uH
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< LOW PASS FILTER >

LPF101	1-236-087-11	FILTER, LOW PASS	
LPF201	1-236-087-11	FILTER, LOW PASS	

< TRANSISTOR >

Q101	8-729-900-74	TRANSISTOR	DTC143TS
Q102	8-729-620-05	TRANSISTOR	2SC2603-EF
Q201	8-729-900-74	TRANSISTOR	DTC143TS
Q202	8-729-620-05	TRANSISTOR	2SC2603-EF
Q501	8-729-900-61	TRANSISTOR	DTA114ES
Q502	8-729-900-61	TRANSISTOR	DTA114ES
Q503	8-729-900-80	TRANSISTOR	DTC114ES
Q504	8-729-900-80	TRANSISTOR	DTC114ES
Q505	8-729-900-61	TRANSISTOR	DTA114ES
Q506	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q510	8-729-141-30	TRANSISTOR	2SC3623A-LK
Q511	8-729-900-80	TRANSISTOR	DTC114ES
Q512	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q514	8-729-900-74	TRANSISTOR	DTC143TS
Q515	8-729-900-61	TRANSISTOR	DTA114ES
Q516	8-729-900-80	TRANSISTOR	DTA114ES
Q517	8-729-900-61	TRANSISTOR	DTA114ES
Q601	8-729-900-65	TRANSISTOR	DTA144ES

Ref. No.	Part No.	Description	Remark
Q701	8-729-141-83	TRANSISTOR	2SB1094-LK
Q702	8-729-209-15	TRANSISTOR	2SD2012

Q703	8-729-620-05	TRANSISTOR	2SC2603-EF
Q704	8-729-209-15	TRANSISTOR	2SD2012
Q705	8-729-620-05	TRANSISTOR	2SC2603-EF
Q706	8-729-620-05	TRANSISTOR	2SC2603-EF
Q801	8-729-900-80	TRANSISTOR	DTC114ES

Q802	8-729-900-61	TRANSISTOR	DTA114ES
Q803	8-729-119-76	TRANSISTOR	2SA1175-HFE
Q804	8-729-900-89	TRANSISTOR	DTC144ES
Q805	8-729-900-65	TRANSISTOR	DTA144ES
Q806	8-729-900-61	TRANSISTOR	DTA114ES
Q810	8-729-900-61	TRANSISTOR	DTA114ES
Q813	8-729-900-61	TRANSISTOR	DTA114ES
Q814	8-729-900-89	TRANSISTOR	DTC144ES
Q815	8-729-801-84	TRANSISTOR	2SB1013-4
Q816	8-729-801-84	TRANSISTOR	2SB1013-4

< RESISTOR >

R101	1-249-421-11	CARBON	2.2K 5% 1/4W
R102	1-249-423-11	CARBON	3.3K 5% 1/4W
R103	1-247-887-00	CARBON	220K 5% 1/4W
R106	1-249-421-11	CARBON	2.2K 5% 1/4W
R107	1-249-437-11	CARBON	47K 5% 1/4W
R109	1-249-423-11	CARBON	3.3K 5% 1/4W
R110	1-249-428-11	CARBON	8.2K 5% 1/4W
R112	1-247-864-11	CARBON	24K 5% 1/4W
R113	1-249-414-11	CARBON	560 5% 1/4W
R115	1-249-421-11	CARBON	2.2K 5% 1/4W

R117	1-249-431-11	CARBON	15K 5% 1/4W
R118	1-249-421-11	CARBON	2.2K 5% 1/4W
R119	1-249-429-11	CARBON	10K 5% 1/4W
R120	1-249-421-11	CARBON	2.2K 5% 1/4W
R121	1-249-417-11	CARBON	1K 5% 1/4W
R122	1-249-436-11	CARBON	39K 5% 1/4W
R123	1-249-432-11	CARBON	18K 5% 1/4W
R124	1-249-410-11	CARBON	270 5% 1/4W
R126	1-249-417-11	CARBON	1K 5% 1/4W
R127	1-249-429-11	CARBON	10K 5% 1/4W
R201	1-249-421-11	CARBON	2.2K 5% 1/4W
R202	1-249-423-11	CARBON	3.3K 5% 1/4W
R203	1-247-887-00	CARBON	220K 5% 1/4W
R206	1-249-421-11	CARBON	2.2K 5% 1/4W
R207	1-249-437-11	CARBON	47K 5% 1/4W
R209	1-249-423-11	CARBON	3.3K 5% 1/4W
R210	1-249-428-11	CARBON	8.2K 5% 1/4W
R212	1-247-864-11	CARBON	24K 5% 1/4W
R213	1-249-414-11	CARBON	560 5% 1/4W
R215	1-249-421-11	CARBON	2.2K 5% 1/4W

MAIN

Ref. No.	Part No.	Description	Remark
R217	1-249-431-11	CARBON	15K 5% 1/4W
R218	1-249-421-11	CARBON	2.2K 5% 1/4W
R219	1-249-429-11	CARBON	10K 5% 1/4W
R220	1-249-421-11	CARBON	2.2K 5% 1/4W
R221	1-249-417-11	CARBON	1K 5% 1/4W
R222	1-249-436-11	CARBON	39K 5% 1/4W
R223	1-249-432-11	CARBON	18K 5% 1/4W
R224	1-249-410-11	CARBON	270 5% 1/4W
R226	1-249-417-11	CARBON	1K 5% 1/4W
R227	1-249-429-11	CARBON	10K 5% 1/4W
R501	1-249-405-11	CARBON	100 5% 1/4W
R502	1-249-405-11	CARBON	100 5% 1/4W
R503	1-249-434-11	CARBON	27K 5% 1/4W
R504	1-249-429-11	CARBON	10K 5% 1/4W
R505	1-249-413-11	CARBON	470 5% 1/4W
R506	1-247-864-11	CARBON	24K 5% 1/4W
R507	1-247-887-00	CARBON	220K 5% 1/4W
R510	1-249-429-11	CARBON	10K 5% 1/4W
R511	1-249-429-11	CARBON	10K 5% 1/4W
R512	1-247-887-00	CARBON	220K 5% 1/4W
R513	1-249-429-11	CARBON	10K 5% 1/4W
R514	1-249-441-11	CARBON	100K 5% 1/4W
R515	1-249-428-11	CARBON	8.2K 5% 1/4W
R516	1-249-423-11	CARBON	3.3K 5% 1/4W
R517	1-249-441-11	CARBON	100K 5% 1/4W
R518	1-249-417-11	CARBON	1K 5% 1/4W
R519	1-249-441-11	CARBON	100K 5% 1/4W
R520	1-249-429-11	CARBON	10K 5% 1/4W
R521	1-249-441-11	CARBON	100K 5% 1/4W
R522	1-249-433-11	CARBON	22K 5% 1/4W
R524	1-249-417-11	CARBON	1K 5% 1/4W
R526	1-249-429-11	CARBON	10K 5% 1/4W
R527	1-249-417-11	CARBON	1K 5% 1/4W
R528	1-249-437-11	CARBON	47K 5% 1/4W
R534	1-247-882-11	CARBON	130K 5% 1/4W
R535	1-249-440-11	CARBON	82K 5% 1/4W
R536	1-249-405-11	CARBON	100 5% 1/4W
R537	1-249-433-11	CARBON	22K 5% 1/4W
R538	1-249-425-11	CARBON	4.7K 5% 1/4W
R539	1-249-414-11	CARBON	560 5% 1/4W
R540	1-249-433-11	CARBON	22K 5% 1/4W
R541	1-249-407-11	CARBON	150 5% 1/4W
R543	1-249-433-11	CARBON	22K 5% 1/4W
R601	1-247-858-11	CARBON	13K 5% 1/4W
R602	1-247-844-11	CARBON	3.6K 5% 1/4W
R603	1-249-417-11	CARBON	1K 5% 1/4W
R604	1-247-862-11	CARBON	20K 5% 1/4W
R605	1-249-429-11	CARBON	10K 5% 1/4W
R701	1-249-413-11	CARBON	470 5% 1/4W

Ref. No.	Part No.	Description	Remark
R702	1-249-413-11	CARBON	470 5% 1/4W
R703	1-249-422-11	CARBON	2.7K 5% 1/4W
R704	1-247-858-11	CARBON	13K 5% 1/4W
R705	1-249-429-11	CARBON	10K 5% 1/4W
R706	1-249-417-11	CARBON	1K 5% 1/4W
R707	1-247-850-11	CARBON	6.2K 5% 1/4W
R708	1-249-422-11	CARBON	2.7K 5% 1/4W
R709	1-249-429-11	CARBON	10K 5% 1/4W
R710	1-249-429-11	CARBON	10K 5% 1/4W
R711	1-249-421-11	CARBON	2.2K 5% 1/4W
R712	1-249-432-11	CARBON	18K 5% 1/4W
R713	1-249-423-11	CARBON	3.3K 5% 1/4W
R714	1-249-433-11	CARBON	22K 5% 1/4W
R715	1-249-435-11	CARBON	33K 5% 1/4W
R801	1-249-429-11	CARBON	10K 5% 1/4W
R802	1-247-903-00	CARBON	1M 5% 1/4W
R803	1-249-434-11	CARBON	27K 5% 1/4W
R804	1-249-434-11	CARBON	27K 5% 1/4W
R805	1-249-435-11	CARBON	33K 5% 1/4W
R806	1-249-435-11	CARBON	33K 5% 1/4W
R807	1-249-434-11	CARBON	27K 5% 1/4W
R808	1-247-895-00	CARBON	470K 5% 1/4W
R809	1-247-895-00	CARBON	470K 5% 1/4W
R810	1-249-434-11	CARBON	27K 5% 1/4W
R811	1-249-435-11	CARBON	33K 5% 1/4W
R812	1-249-435-11	CARBON	33K 5% 1/4W
R813	1-249-421-11	CARBON	2.2K 5% 1/4W
R814	1-249-421-11	CARBON	2.2K 5% 1/4W
R815	1-249-421-11	CARBON	2.2K 5% 1/4W
R816	1-249-421-11	CARBON	2.2K 5% 1/4W
R817	1-249-393-11	CARBON	10 5% 1/4W
R818	1-249-435-11	CARBON	33K 5% 1/4W
R821	1-247-903-00	CARBON	1M 5% 1/4W
R822	1-249-435-11	CARBON	33K 5% 1/4W
R823	1-249-425-11	CARBON	4.7K 5% 1/4W
R824	1-249-435-11	CARBON	33K 5% 1/4W
R825	1-249-429-11	CARBON	10K 5% 1/4W
R826	1-249-420-11	CARBON	1.8K 5% 1/4W
R827	1-249-435-11	CARBON	33K 5% 1/4W
R828	1-249-433-11	CARBON	22K 5% 1/4W
R829	1-249-433-11	CARBON	22K 5% 1/4W
R830	1-249-433-11	CARBON	22K 5% 1/4W
R831	1-249-421-11	CARBON	2.2K 5% 1/4W
R834	1-249-425-11	CARBON	4.7K 5% 1/4W
R835	1-249-435-11	CARBON	33K 5% 1/4W
R836	1-249-435-11	CARBON	33K 5% 1/4W
R837	1-249-433-11	CARBON	22K 5% 1/4W
R838	1-249-422-11	CARBON	2.7K 5% 1/4W

MAIN

MD-A

MD-B

Ref. No.	Part No.	Description			Remark
R839	1-249-405-11	CARBON	100	5%	1/4W
R842	1-249-425-11	CARBON	4.7K	5%	1/4W
R843	1-247-862-11	CARBON	20K	5%	1/4W
R844	1-247-862-11	CARBON	20K	5%	1/4W
R845	1-249-425-11	CARBON	4.7K	5%	1/4W
R846	1-249-415-11	CARBON	680	5%	1/4W
R847	1-249-429-11	CARBON	10K	5%	1/4W
R848	1-249-415-11	CARBON	680	5%	1/4W
R849	1-249-429-11	CARBON	10K	5%	1/4W
R851	1-249-437-11	CARBON	47K	5%	1/4W
R852	1-247-866-11	CARBON	30K	5%	1/4W
R853	1-247-866-11	CARBON	30K	5%	1/4W
R854	1-249-437-11	CARBON	47K	5%	1/4W
R855	1-247-872-11	CARBON	51K	5%	1/4W
R856	1-247-872-11	CARBON	51K	5%	1/4W
R857	1-247-872-11	CARBON	51K	5%	1/4W
R858	1-247-872-11	CARBON	51K	5%	1/4W
R859	1-249-405-11	CARBON	100	5%	1/4W
R860	1-249-405-11	CARBON	100	5%	1/4W
R870	1-247-688-11	CARBON	2.2	5%	1/4W
R871	1-247-688-11	CARBON	2.2	5%	1/4W
< VARIABLE RESISTOR >					
RV101	1-238-600-11	RES. ADJ. CARBON	10K		
RV201	1-238-600-11	RES. ADJ. CARBON	10K		
< VIBRATOR >					
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			
X802	1-577-358-21	VIBRATOR, CERAMIC (4MHz)			

* A-2006-399-A MD-A BOARD, COMPLETE

		< CAPACITOR >		
C11	1-163-131-00	CERAMIC CHIP	390PF	5%
C12	1-136-157-00	FILM	0.022uF	5%
C13	1-124-234-00	ELECT	22uF	20%
C18	1-163-117-00	CERAMIC CHIP	100PF	5%
C21	1-163-131-00	CERAMIC CHIP	390PF	5%
C22	1-136-157-00	FILM	0.022uF	5%
C23	1-124-234-00	ELECT	22uF	20%
C28	1-163-117-00	CERAMIC CHIP	100PF	5%
C31	1-124-234-00	ELECT	22uF	20%
C32	1-124-234-00	ELECT	22uF	20%
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%
			50V	

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P			
* CNP32	1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P			
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
< IC >					
JC31	8-759-106-02	IC uPC4570G2			
< JUMPER >					
JW1	1-216-295-00	METAL CHIP	0	5%	1/10W
JW51	1-216-296-00	METAL CHIP	0	5%	1/8W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
< TRANSISTOR >					
Q71	8-729-602-36	TRANSISTOR 2SA1602			
< RESISTOR >					
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
< VARIABLE RESISTOR >					
RV11	1-238-012-11	RES. ADJ. CARBON	1K		
RV21	1-238-012-11	RES. ADJ. CARBON	1K		
RV71	1-238-016-11	RES. ADJ. CARBON	10K		
RV72	1-238-016-11	RES. ADJ. CARBON	10K		

* A-2006-400-A MD-B BOARD, COMPLETE					

< CAPACITOR >					
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-234-00	ELECT	22uF	20%	16V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V
			50V		
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C14	1-136-273-91	FILM	75PF	5%	630V

MD-B

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark									
C15	1-164-080-11	CERAMIC	390PF	10%	50V	JW57	1-216-296-00	METAL CHIP	0	5%	1/8W							
C17	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	JW58	1-216-296-00	METAL CHIP	0	5%	1/8W							
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	JW59	1-216-296-00	METAL CHIP	0	5%	1/8W							
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	JW60	1-216-296-00	METAL CHIP	0	5%	1/8W							
C22	1-136-157-00	FILM	0.022uF	5%	50V	JW61	1-216-296-00	METAL CHIP	0	5%	1/8W							
C23	1-124-234-00	ELECT	22uF	20%	16V	< COIL >												
C24	1-136-273-91	FILM	75PF	5%	630V	L11	1-410-780-11	INDUCTOR	27mH			L21	1-410-780-11	INDUCTOR	27mH			
C25	1-164-080-11	CERAMIC	390PF	10%	50V	< TRANSISTOR >												
C27	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	Q51	8-729-808-01	TRANSISTOR	2SD1622-S			Q52	8-729-808-01	TRANSISTOR	2SD1622-S			
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	Q53	8-729-808-01	TRANSISTOR	2SD1622-S			Q71	8-729-602-36	TRANSISTOR	2SA1602			
C31	1-124-234-00	ELECT	22uF	20%	16V	< RESISTOR >												
C32	1-124-234-00	ELECT	22uF	20%	16V	R11	1-216-099-00	METAL CHIP	120K	5%	1/10W	R12	1-216-025-00	METAL CHIP	100	5%	1/10W	
C33	1-124-234-00	ELECT	22uF	20%	16V	R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W	R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	R15	1-249-430-11	CARBON	12K	5%	1/4W	R21	1-216-099-00	METAL CHIP	120K	5%	1/10W	
C52	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	R22	1-216-025-00	METAL CHIP	100	5%	1/10W	R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W	
C53	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V	R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	R25	1-249-430-11	CARBON	12K	5%	1/4W	
C54	1-136-559-11	FILM	0.0047uF	5%	630V	R31	1-216-033-00	METAL CHIP	220	5%	1/10W	R32	1-216-033-00	METAL CHIP	220	5%	1/10W	
C56	1-164-505-11	CERAMIC CHIP	2.2uF		16V	R41	1-249-393-11	CARBON	10	5%	1/4W	R42	1-249-393-11	CARBON	10	5%	1/4W	
C57	1-164-346-11	CERAMIC CHIP	1uF		16V	R51	1-216-075-00	METAL CHIP	12K	5%	1/10W	R52	1-216-075-00	METAL CHIP	12K	5%	1/10W	
C58	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V	R53	1-216-073-00	METAL CHIP	10K	5%	1/10W	R54	1-216-309-00	METAL CHIP	5.6	5%	1/10W	
C72	1-124-499-11	ELECT, NONPOLAR	1uF	20%	50V	R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W	R56	1-216-298-00	METAL CHIP	2.2	5%	1/10W	
< CONNECTOR >																		
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD																
* CNJ33	1-580-782-11	CONNECTOR, BOARD TO BOARD																
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P																
* CNP32	1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P																
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P																
< DIODE >																		
D31	8-719-988-62	DIODE	ISS355															
< IC >																		
IC31	8-759-106-02	IC	uPC4570G2															
< JUMPER >																		
JW1	1-216-296-00	METAL CHIP	0	5%	1/8W	R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W	R72	1-216-081-00	METAL CHIP	22K	5%	1/10W	
JW2	1-216-295-00	METAL CHIP	0	5%	1/10W	R73	1-216-089-00	METAL CHIP	47K	5%	1/10W	R74	1-216-089-00	METAL CHIP	47K	5%	1/10W	
JW3	1-216-295-00	METAL CHIP	0	5%	1/10W	< VARIABLE RESISTOR >												
JW4	1-216-295-00	METAL CHIP	0	5%	1/10W	RV11	1-238-012-11	RES, ADJ, CARBON 1K										
JW5	1-216-295-00	METAL CHIP	0	5%	1/10W	RV12	1-238-551-11	RES, ADJ, CARBON 220K										
JW6	1-216-295-00	METAL CHIP	0	5%	1/10W	RV21	1-238-012-11	RES, ADJ, CARBON 1K										
JW7	1-216-295-00	METAL CHIP	0	5%	1/10W	RV22	1-238-551-11	RES, ADJ, CARBON 220K										
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W	RV71	1-238-016-11	RES, ADJ, CARBON 10K										
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W													
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W													
JW55	1-216-296-00	METAL CHIP	0	5%	1/8W													
JW56	1-216-296-00	METAL CHIP	0	5%	1/8W													

MD-B

PANEL

RECVOL

Ref. No.	Part No.	Description	Remark		
RV72	1-238-016-11	RES. ADJ. CARBON 10K			
		< RELAY >			
RY31	1-515-726-11	RELAY			
		< COIL >			
T51	1-406-419-11	COIL, BIAS OSCILLATION			

*	A-2006-747-A	PANEL BOARD, COMPLETE			

*	3-362-478-21	HOLDER (T), LED			
*	4-921-941-01	CUSHION (FL)			
*	4-933-646-01	HOLDER (TC), FL TUBE			
		< CAPACITOR >			
C406	1-162-292-31	CERAMIC	680PF	10%	50V
C407	1-162-292-31	CERAMIC	680PF	10%	50V
C408	1-162-292-31	CERAMIC	680PF	10%	50V
C901	1-161-379-00	CERAMIC	0.01uF	20%	25V
C902	1-161-379-00	CERAMIC	0.01uF	20%	25V
		< CONNECTOR >			
* CN901	1-568-836-11	SOCKET, CONNECTOR 17P			
		< DIODE >			
D901	8-719-301-38	LED	SEL2210S-C		
D902	8-719-301-38	LED	SEL2210S-C		
D903	8-719-301-38	LED	SEL2210S-C		
D904	8-719-301-38	LED	SEL2210S-C		
D906	8-719-987-63	DIODE	1N4148M		
		< FLUORESCENT INDICATOR >			
FL901	1-519-741-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC901	8-759-321-92	IC	HD614022S		
		< TRANSISTOR >			
Q901	8-729-900-61	TRANSISTOR	DTA114ES		
		< RESISTOR >			
R401	1-249-405-11	CARBON	100	5%	1/4W
R402	1-249-405-11	CARBON	100	5%	1/4W
R403	1-249-405-11	CARBON	100	5%	1/4W
R901	1-249-407-11	CARBON	150	5%	1/4W
R902	1-249-409-11	CARBON	220	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R904	1-249-413-11	CARBON	470	5%	1/4W
R905	1-249-415-11	CARBON	680	5%	1/4W
R906	1-249-417-11	CARBON	1K	5%	1/4W
R907	1-249-420-11	CARBON	1.8K	5%	1/4W
R909	1-249-407-11	CARBON	150	5%	1/4W
R910	1-249-409-11	CARBON	220	5%	1/4W
R911	1-249-411-11	CARBON	330	5%	1/4W
R912	1-249-418-11	CARBON	1.2K	5%	1/4W
R927	1-249-411-11	CARBON	330	5%	1/4W
R928	1-249-411-11	CARBON	330	5%	1/4W
R929	1-249-411-11	CARBON	330	5%	1/4W
R930	1-249-411-11	CARBON	330	5%	1/4W
R931	1-247-903-00	CARBON	1M	5%	1/4W
R932	1-249-411-11	CARBON	330	5%	1/4W
		< SWITCH >			
S901	1-554-303-21	SWITCH, TACTILE (HIGH SPEED)			
S902	1-554-303-21	SWITCH, TACTILE (NORMAL SPEED)			
S905	1-554-303-21	SWITCH, TACTILE (RESET)			
S906	1-554-303-21	SWITCH, TACTILE (MEMORY)			
S907	1-554-303-21	SWITCH, TACTILE (A/B)			
S909	1-554-303-21	SWITCH, TACTILE (C FADE)			
S910	1-554-303-21	SWITCH, TACTILE (FADE)			
S911	1-554-303-21	SWITCH, TACTILE (EDIT)			
S912	1-554-303-21	SWITCH, TACTILE (TIME)			
		< VIBRATOR >			
X901	1-567-775-11	VIBRATOR, CERAMIC (4.19MHz)			

*	1-643-528-11	RECVOL BOARD			

		< CAPACITOR >			
C814	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN508	1-568-832-11	SOCKET, CONNECTOR 13P			
		< DIODE >			
D805	8-719-987-63	DIODE	1N4148M		
D806	8-719-987-63	DIODE	1N4148M		
		< IC >			
IC806	8-759-820-62	IC	LB1639		
		< TRANSISTOR >			
Q807	8-729-900-65	TRANSISTOR	DTA144ES		

RECVOL SW-A SW-B

Ref. No.	Part No.	Description	Remark		
0808	8-729-900-89	TRANSISTOR DTC144ES			
< RESISTOR >					
R125	1-249-429-11	CARBON 10K 5% 1/4W			
R225	1-249-429-11	CARBON 10K 5% 1/4W			
R832	1-249-412-11	CARBON 390 5% 1/4W			
R833	1-249-411-11	CARBON 330 5% 1/4W			
< VARIABLE RESISTOR >					
RV301	1-241-891-11	RES. VAR. CARBON 20KX3 (REC LEVEL)			

*	1-634-841-14	SW-A BOARD			

3-343-419-01 HOLDER (S SENSER A)					
< CONNECTOR >					
*	CNP81	1-568-852-11 SOCKET, CONNECTOR 9P			
< IC >					
IC81	8-719-710-03	DIODE NJL5165K-B			
< RESISTOR >					
R84	1-249-417-11	CARBON 1K 5% 1/4W			
R85	1-249-408-11	CARBON 180 5% 1/4W			
< SWITCH >					
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)			
S82	1-571-281-21	SWITCH, LEAF (70EO)			
S86	1-571-281-21	SWITCH, LEAF (HALF)			

*	1-634-841-14	SW-B BOARD			

3-343-419-01 HOLDER (S SENSER A)					
< CONNECTOR >					
*	CNP81	1-568-852-11 SOCKET, CONNECTOR 9P			
< IC >					
IC81	8-719-710-03	DIODE NJL5165K-B			
< RESISTOR >					
R81	1-249-414-11	CARBON 560 5% 1/4W			
R82	1-247-818-11	CARBON 300 5% 1/4W			
R83	1-247-834-11	CARBON 1.3K 5% 1/4W			
R84	1-249-417-11	CARBON 1K 5% 1/4W			

Ref. No.	Part No.	Description	180	5%	1/4W	Remark
R85	1-249-408-11	CARBON				

< SWITCH >					
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)			
S82	1-571-281-21	SWITCH, LEAF (70EO)			
S83	1-571-281-21	SWITCH, LEAF (METAL)			
S84	1-571-281-21	SWITCH, LEAF (REC A)			
S85	1-571-281-21	SWITCH, LEAF (REC B)			
S86	1-571-281-21	SWITCH, LEAF (HALF)			

MISCELLANEOUS					
* 5	1-574-726-11	WIRE, FLAT TYPE (13 CORE)			
6	1-690-907-11	WIRE (FLAT TYPE) (17 CORE)			
69	1-690-906-11	WIRE (FLAT TYPE) (9 CORE)			
121	1-638-983-11	MOTOR FLEXIBLE BOARD			
HP901	A-2003-837-A	BASE ASSY, HEAD (PB) (DECK A)			
HRPE901A	A-2003-838-A	BASE ASSY, HEAD (REC/PB/ERASE) (DECK B)			
M901A	X-3359-417-1	MOTOR ASSY (CAPSTAN) (DECK A)			
M901B	X-3359-417-1	MOTOR ASSY (CAPSTAN) (DECK B)			
M902A	X-3363-501-1	MOTOR ASSY (REEL) (DECK A)			
M902B	X-3363-501-1	MOTOR ASSY (REEL) (DECK B)			

ACCESSORIES & PACKING MATERIALS					
*	3-350-154-01	CUSHION			
	4-920-940-01	SHEET (A), PROTECTION			

HARDWARE LIST

#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#2	7-621-773-93	SCREW (PANEL 2.6 TP2)
#3	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S
#4	7-621-775-00	SCREW +B 2.6X3
#5	7-627-556-08	SCREW +P 2.6X2.8